



Government of India
Ministry of Environment, Forest and Climate Change
IA Division
(Industrial Projects - 1)



Minutes of 19th Meeting of EAC Industry-1 meeting Industrial Projects - 1
held from 09/01/2026 to 09/01/2026

Date: 19/01/2026

MoM ID: EC/MOM/EAC/239606/1/2026
Agenda ID: EC/AGENDA/EAC/239606/1/2026
Meeting Venue: N/A
Meeting Mode: Virtual
Date & Time:

09/01/2026	10:00 AM	06:00 PM
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1. Opening remarks

Shri Rajive Kumar, Chairman EAC welcomed all the members of the Committee and appreciated the efforts of the Ministry's Team (Industry-1 Sector) for preparation and uploading the Agenda of the EAC meetings and draft record of discussion very scientifically, systematically, transparently and timely on Parivesh Portal.

- (ii) The Member Secretary informed the committee that there is substantial reduction in the pendency of the projects. The increasing use of various decision-making tools such as KYA, GIS based DSS is assisting us to make quick and transparent decisions. The committee took note of it and acknowledged the efforts of the ministry team.

- (iii) The EAC noted that there may be some unintentional, minor errors in uploaded Minutes of Meeting on the PARIVESH PORTAL due to the voluminous nature of Minutes of Meeting. EAC decided that PPs may raise their issues (if any) for corrections within three days of the issuance of MOM enabling the EAC to consider the request (if required) in its next meeting.

2. Confirmation of the minutes of previous meeting

- (iv) **Confirmation of the Minutes of the 18th meeting of the EAC for Industry-I sector held on 22nd - 23rd December, 2025 at MoEF&CC through VC Mode.**

The EAC meeting for Industry-I sector was held on 22nd -23rd December, 2025 through VC Mode. The EAC, having taken note that final minutes were issued after incorporating comments offered by the EAC (Industry-1 Sector) members on the minutes of its 18th meeting of the EAC for Industry-I sector held on 22nd -23rd December, 2025 conducted through VC Mode, and noted that requests for modification/ factual correction were received as below:

[Proposal no.: IA/RJ/IND1/557009/2025: File No. IA-J-11011/343/2007-IA-II(IND-I)]
[Consultant: Gaurang Environmental Solutions Pvt. Ltd; Valid upto: 07.12.2026]

PP vide email dated 01-01-2026 submitted that the MoM at Para 18.3.24, Point no. 12 mentioned that -

Existing Water requirement is 104.3 m³/day (Fresh-87.5 m³/day, Recycled-16.8 m³/day), fresh water requirement is obtained from Ground water supply. The water requirement for the proposed expansion project - Phase -II is estimated as 14.3 m³/day (Fresh :12.5 m³/day and recycled 1.8 m³/day). 75 m³/day of fresh water requirement will be obtained from the Ground water and 25 m³/day of fresh water requirement will be obtained from Stored Rain water and the remaining requirement of 18.6 m³/day will be met from the Recycled water. The EAC opined that the PP secure the required approval from the appropriate authority.

However, PP submitted that the the total water requirement is 118.6 m³/day, out of which, 75m³/day of fresh water is sourced from groundwater, 25m³/day water requirement met from stored rainwater, and the remaining 18.6m³/day from recycled water. Permission for groundwater abstraction of 75 KLD has already been obtained from the Central Ground Water Authority (CGWA) vide letter No. CGWA/NOC/IND/RJ/2024/278/R-3/3, which is valid up to 31.12.2026.

The EAC examined the PP's request, and **noted that the MoM already mentions Existing Water requirement is 104.3 m³/day and Phase-II requirement as as 14.3 m³/day, totalling to 118.6 m³/day. Further, all other aspects mentioned in the PP's fresh submission are also incorporated.** However, considering PP's intent to mention total quantity, EAC agreed to add an additional statement to the existing deliberations at Point no. 12 of MoM, which is highlighted, as given below:

Existing Water requirement is 104.3 m³/day (Fresh-87.5 m³/day, Recycled-16.8 m³/day), fresh water requirement is obtained from Ground water supply. The water requirement for the proposed expansion project - Phase -II is estimated as 14.3 m³/day (Fresh :12.5 m³/day and recycled 1.8 m³/day). **Accordingly, the cumulative water requirement would be 118.6 m³/day, out of which, 75 m³/day of fresh water requirement will be obtained from the Ground water and 25 m³/day of fresh water requirement will be obtained from Stored Rain water and the remaining requirement of 18.6 m³/day will be met from the Recycled water. The EAC opined that the PP secure the required approval from the appropriate authority.**

Agenda 18.7 - Proposed expansion in manufacturing of Secondary Metallurgical Stainless Steel Billets Plant by M/s Chandan Steel Ltd. (Unit-1) located at Plot No.: 32, 33B, 34, 35, 36, GIDC Umbergaon, Tal: Umbergaon, District Valsad, Gujarat-Consideration of EC.

**[Proposal no.: IA/GJ/IND1/560377/2025: File No. J-11011/479/2011-IA-II-(I)]
[Consultant: Eco Chem Sales & Services; Valid upto: 03.03.2027]**

PP vide email dated 02-01-2026 submitted that the MoM at Para 18.7.22, Point no. 7 mentioned that - *The Committee noted that the project is an expansion proposal under Para 7(ii)(a), and the expansion is proposed within the existing premises.* However, PP clarified that the proposal is for EC expansion for which Public Hearing was conducted, and not an expansion proposal under Para 7(ii)(a).

In light of the submissions made, and PP's request vis-à-vis factual status, the EAC agreed to amend the MoM, and accordingly the statement at Para 18.7.22, Point no. 7 may be read as - ***The Committee noted that the project is an expansion proposal with Public hearing, and the expansion is proposed within the existing premises.***

(v) Details of Proposals and Agenda by the Member Secretary, EAC

Shri. Dinesh Runiwal, Scientist 'F' and Member Secretary, EAC (Industry-1 Sector) appraised to the Committee about the details of Agenda items to be discussed during this EAC meeting.

Details of the proposals considered during the 19th meeting **conducted** through **VC Mode**, deliberations made and the recommendations of the Committee are explained in the respective agenda items as under:

Note - Due to Editor issue, Final Approved Minutes of the EAC is enclosed herewith in PDF as an **ANNEXURE-X. Please refer**

this document and Treat as approved Minutes of the EAC [Industry 1 Sector]

3. Details of proposals considered by the committee

Day 1 -09/01/2026

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Proposed Expansion of Integrated Cement Plant (Clinker: 3.0 MTPA to 15.06 MTPA, Cement: 4.5 MTPA to 14.5 MTPA, CPP: 50 MW (No Change), WHRS 15 MW to 87 MW, DG Set (9190 kVA), AFR Pre-processing & Feeding System (4250 TPD), Synthetic Gypsum Plant (5000 TPD) and Fly Ash Dryer: 1000 TPD, Railway siding with Wagon Tippler & Loader by Installation of new Line - 2, 3 & 4 and Plant Residential Colony at Village & Tehsil: Marwar Mundwa, District: Nagaur, State Rajasthan by Ambuja Cements Limited located at NAGAUR, RAJASTHAN			
Proposal For		Expansion EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
IA/RJ/IND1/546108/2025	IA-J-11011/394/2010-IA-II(IND-I)	30/12/2025	Cement plants Integrated Cement plants and Grinding units (3(b))

3.1.2. Project Salient Features

<p>[Proposal no.: IA/RJ/IND1/546108/2025: File No. IA-J-11011/394/2010-IA-II (IND-I)] [Consultant: Ecomen Mining Private Limited (formerly known as Ecomen Laboratories Pvt Ltd.); Valid upto: 10.03.2029]</p>				
				11.10.2028
EDS Points	Reply			
The form in Part-A must mention the Clinker capacity, as the same is significant and more than the Cement capacity on TPA basis	<p>Under Para 1.4.1 of Part-A it is mentioned as production capacity of Cement i.e. 14.5 MTPA. Considering the Clinker as significant component the estimated quantity will be 15.06 MTPA, which is mentioned under Para 1.1, Part-A of application. The application is also updated with following components under para 1.4.1 of Part A:</p> <ol style="list-style-type: none"> 1. Cement Capacity : 14.5 Million MTPA 2. Clinker Capacity : 15.06 Million MTPA 3. Captive Power Plant : 50 MW (no change), 4. WHRS : 87 MW, 5. DG set : 9190 kva, 6. AFR pre-processing & feeding system: 4250 TPD, 			

EDS Points	Reply																														
	7. Synthetic Gypsum Plant : 5000 TPD and 8. Fly ash dryer : 1000 TPD																														
Point no.9, Part A may be corrected as there is forest land within study area of 10 kms	There are no Reserve Forest and Protected Forest within 10 km radius of the study area. Hence it is mentioned under Point No. 9 of Part A as NA i.e. Not Available .																														
Land related documents are not legible, the same may be uploaded in good quality. A notarized statement of land under possession be submitted on non-judicial stamp paper.	<div>· Legible copy of land related documents is submitted.</div> <div>· Notarised statement of land under possession of M/s Ambuja Cements Limited is submitted and summary is given below:</div> <table><tr><th rowspan="3">Sr. No</th><th rowspan="3">Document reference No.</th><th colspan="3">Area as per Documents</th></tr><tr><th colspan="2">In Local Unit</th><th rowspan="2">In Hectare</th></tr><tr><th>Bigha</th><th>Biswa</th></tr><tr><td>1</td><td>Allotment letter from RIICO dated 05.12.2007</td><td>1203</td><td>13</td><td>194.84</td></tr><tr><td>2.</td><td><div>· Land Purchased and conversion made vide letter of Revenue Department Group-3 Government of Rajasthan letter No. P-2-(606)/Raj03/06 dated 17/02/2012.</div><div>· Out of which cancellation of Gauchar Land vide issued by District Collector vide Letter No एफ12 () राजस्व/1986/6575 Dated 17.10.2013. (132 beegha).</div></td><td>364</td><td>18</td><td>59.07</td></tr><tr><td>3.</td><td>Land transferred by District Collector vide letter No. एफ12 (10) राजस्व/98 पार्ट क्रमांक/9200-9207 Dated 23.11.2011. (from M/s Indo Nippon to M/s Ambuja Cements Limited).</td><td>60</td><td>18</td><td>9.85</td></tr><tr><td colspan="2">Total</td><td>1627</td><td>49</td><td>263.76</td></tr></table>	Sr. No	Document reference No.	Area as per Documents			In Local Unit		In Hectare	Bigha	Biswa	1	Allotment letter from RIICO dated 05.12.2007	1203	13	194.84	2.	<div>· Land Purchased and conversion made vide letter of Revenue Department Group-3 Government of Rajasthan letter No. P-2-(606)/Raj03/06 dated 17/02/2012.</div> <div>· Out of which cancellation of Gauchar Land vide issued by District Collector vide Letter No एफ12 () राजस्व/1986/6575 Dated 17.10.2013. (132 beegha).</div>	364	18	59.07	3.	Land transferred by District Collector vide letter No. एफ12 (10) राजस्व/98 पार्ट क्रमांक/9200-9207 Dated 23.11.2011. (from M/s Indo Nippon to M/s Ambuja Cements Limited).	60	18	9.85	Total		1627	49	263.76
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Many documents are in vernacular/ Hindi language. PP may ensure that all such documents may be uploaded in Hindi as well as English, after authenticated tran	All documents of vernacular/Hindi language have been translated in English language and Notarized. Both the documents are submitted.																														

EDS Points	Reply																																																
station																																																	
The Part B or part C 14.1.6 mentions that Project is operational for partial components whereas details are mentioned in the table as 'N/A', the same may be corrected.	<p>In the Part A at point No 14.1.6, the following details have been corrected.</p> <table><tr><th>EC</th><th>CTE</th><th>CTO</th><th>Details of Units implemented</th><th>Remarks</th></tr><tr><td colspan="5">Corrected</td></tr><tr><td>Clinker: 3 MTPA; Cement: 4.5 MTPA; Captive Power Plant: 50 & Waste Heat Recovery Boilers (WHRB):9MW</td><td>Clinker: 3 MTPA; Cement: 4.5 MTPA; Captive Power Plant: 50 & Waste Heat Recovery Boilers (WHRB):9MW</td><td>Cement: 4.5 MTPA; Clinker: 3 MTPA; Waste Heat Recovery Boilers (WHRB):9 MW</td><td>50 MW CPP</td><td>50 MW CPP Not implemented</td></tr></table>	EC	CTE	CTO	Details of Units implemented	Remarks	Corrected					Clinker: 3 MTPA; Cement: 4.5 MTPA; Captive Power Plant: 50 & Waste Heat Recovery Boilers (WHRB):9MW	Clinker: 3 MTPA; Cement: 4.5 MTPA; Captive Power Plant: 50 & Waste Heat Recovery Boilers (WHRB):9MW	Cement: 4.5 MTPA; Clinker: 3 MTPA; Waste Heat Recovery Boilers (WHRB):9 MW	50 MW CPP	50 MW CPP Not implemented																																	
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PP may submit a tabular statement of configuration-wise EC implementation status, duly supported by uploading of related CTO obtained for such quantities	<p>Configuration-wise tabular statement of EC implementation status and CTO obtained is furnished below:</p> <table><tr><th>SN</th><th>Particulars</th><th>Unit</th><th>Capacity as per Existing EC</th><th>Capacity as per Existing CTO</th><th>Existing Implementation Status</th><th>Additional Proposed Capacity</th><th>Total Capacity After Expansion</th></tr><tr><td>1</td><td>Cement</td><td>MTPA</td><td>4.5</td><td>4.5</td><td>Implemented</td><td>10</td><td>14.5</td></tr><tr><td>2</td><td>Clinker</td><td>MTPA</td><td>3.0</td><td>3.0</td><td>Implemented</td><td>12.06</td><td>15.06</td></tr><tr><td>3</td><td>WHRB</td><td>MW</td><td>15</td><td>15</td><td>Implemented</td><td>3 x 24</td><td>87</td></tr><tr><td>4</td><td>CPP</td><td>MW</td><td>50</td><td>0</td><td>Not Installed</td><td>NA</td><td>50</td></tr><tr><td>5</td><td>DG Sets</td><td>KVA</td><td>-</td><td>1 x 1250 KVA 1 x 380 KVA</td><td>Implemented</td><td>3 x 2 x 1010 KVA (For Line-2,3 & 4) and 3 x 500 kVA for WHRB</td><td></td></tr></table> <p>Supporting documents such as Copy of EC, CTE and CTO are submitted.</p>	SN	Particulars	Unit	Capacity as per Existing EC	Capacity as per Existing CTO	Existing Implementation Status	Additional Proposed Capacity	Total Capacity After Expansion	1	Cement	MTPA	4.5	4.5	Implemented	10	14.5	2	Clinker	MTPA	3.0	3.0	Implemented	12.06	15.06	3	WHRB	MW	15	15	Implemented	3 x 24	87	4	CPP	MW	50	0	Not Installed	NA	50	5	DG Sets	KVA	-	1 x 1250 KVA 1 x 380 KVA	Implemented	3 x 2 x 1010 KVA (For Line-2,3 & 4) and 3 x 500 kVA for WHRB	
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The limestone requirement details, as sought at ToR stage, be provided to support the limestone sourcing vis-a-vis clinker manufacturing. Since the limestone	<p>The proposed expansion is not an interlinked project.</p> <ul style="list-style-type: none">The required limestone for proposed expansion will be sourced from both existing Limestone mine (Marwar Limestone ML-I and M-II) and New Auction Blocks (3D2 and HPB20).<ul style="list-style-type: none">EC obtained of existing limestone mine (ML-1 & ML-2) with production capacity of 5MTPA and expansion proposal submitted for 13.5MTPA.EC applied for proposed New Auction Blocks (3D2 and HPB20) to produce 6MTPA limestoneTotal limestone requirement to the cement plant after expansion will be 24.5 MTPA, Sources of limestone details are given below: <table><tr><td></td><td></td><td>4.25</td><td>Marwar Limestone ML-1</td><td>3.0</td><td>EC obtained letter no. J/11015/421/2005-I A.II (M) dated 01.11.2022.</td></tr></table>			4.25	Marwar Limestone ML-1	3.0	EC obtained letter no. J/11015/421/2005-I A.II (M) dated 01.11.2022.																																										
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EDS Points	Reply					
<p>tone is completely sourced from captive mines, it may be clarified as to why PP does not think that it is an interlinked proposal. Further, the PP needs to ensure that EC capacity be supported by equivalent limestone requirement.</p>				Marwar Limestone ML-2	2.0	EC obtained letter no. J-11015/422/2005-IA-II (M) dated 30.06.2023.
				Sub Total	5.0	Copy of EC enclosed with EDS reply
			16.356	Marwar Limestone ML-1 (Expansion)	11.0	ToR obtained vide letter no. J-11015-421-2005-IA-II(M) on 18.11.2024. PH completed on 28.05.2025. EC Application submitted on 30.12.2025
				Marwar Limestone ML-2 (Expansion)	2.5	ToR obtained vide letter no. J-11015-422-2005-IA-II(M) on 25.11.2024. PH completed on 28.05.2025.
				3D2 Limestone Mine, (Auction block)	3.0	TOR obtained vide letter No: I A-J11015/42/2023-IA-II(NCM) on 08/01/2024. PH conducted on 24.07.2024. Final EIA submitted for EC on 17.02.2025. EA C Recommended on 27.02.2025
				Sarasani Hari ma Somna Limestone Block (Auction block-HBP-20)	3.0	TOR obtained vide letter no. I A-J-11015/68/2024-IA-II(NCM) on 18.11.2024. Request letter to conduct the PH is submitted to SPCB on 11.11.2025.
				Sub Total	19.5	Copy of ToR, enclosed as with EDS reply
<p>PP may explain the action plan, with timelines, for conveyor transportation from the captive mines, along with a clarification on the transportation plan, clearly mentioning the mitigation strategy due to road transportation.</p>	<ul style="list-style-type: none"> · Action plan for Limestone transportation · Limestone transportation plan · Mitigation Plan for road transportation - Deployment of specially designed methodology to cover trucks for limestone transportation. - Transportation of clinker to the clinker silo is being/will be done through covered conveyor belt in a very controlled manner. - Movement of heavy trucks/vehicles on the non-metallic road generates substantial quantity of dust emission. - Sprinkling of water through tankers is being/will be done to settle down the fugitive emissions generated by transportation activity. - Company will explore to deploy 30% Electric Vehicle for limestone transportation. 					
<p>PH details</p>	<ul style="list-style-type: none"> · DM, Nagaur has deputed Sub-Divisional Magistrate (SDM), Mundwa Dist Nagaur to chair t 					

EDS Points	Reply																
mentioned in Part-C indicate DM as chairperson in Form, whereas the proceedings indicate SD M as the concerned official. The same may be corrected.	<p>he Public Hearing meeting vide letter No. 3642 dated 23-05-2025.</p> <p>· Hence, the chairperson of the public hearing was Mr. Prabhjot Singh Gill, SDM, Mundwa, Dist Nagaur.</p> <p>· Part-C of application is updated with SDM as Chairperson.</p>																
The presentation must have ToR compliance slides.	Presentation of TOR Points compliance is submitted.																
There are representations, including VIP references, received against the project, which have been referred to RO MoEF&CC/ State Authorities by IA CMD. In this regard, PP may coordinate with authorities and submit a detailed response on the issues raised in the representation.	<p>The RO, Gandhinagar/(Sub-Regional Office) of MoEF&CC, Jaipur has submitted the factual report on dated 04.12.2025 on the VIP reference by Shri Hanuman Beniwal, Hon'ble M.P of Nagaur (Rajasthan regarding alleged irregularities in EC's granted to Ambuja Cement, Marwar Mundwa, Nagaur District of Rajasthan in response to the Letter received from IA-II Division dated 08.09.2025 and Ambuja Cements Limited request letter dated 14.10.2025. The summary of IRO MoEFCC report is submitted.</p> <table border="1"> <thead> <tr> <th>VIP reference points</th><th>Verification facts by IRO MoEFCC Jaipur visited on site 24.09.2025.</th></tr> </thead> <tbody> <tr> <td></td><td> <p>The Environment Clearance obtained MoEFCC vide letter no F.No. J-11011/394/2010-IA-II (I) as per EIA notification 2006, based on an Environment Impact assessment study by NABET & MoEFCC -approved consultant. EC was granted after public consultation and recommendation, followed by appraisal by the EAC.</p> <p>The Distance related submitted facts and the physical verification details are given below;</p> <p>Submitted Details in EIA report;</p> <table border="1"> <thead> <tr> <th>Particulars</th><th>Details</th></tr> </thead> <tbody> <tr> <td>Nearest Village</td><td>Khain 1.5 km in North</td></tr> <tr> <td>Nearest Railway Station</td><td>Marwar-Mundwa (0.2km in south)</td></tr> <tr> <td>Nearest National Highway</td><td>NH-89 (Near boundary in East)</td></tr> </tbody> </table> <p>Details as per approximate physical verification and Google Earth analysis:</p> <table border="1"> <thead> <tr> <th>Particulars</th><th>Details</th></tr> </thead> <tbody> <tr> <td>Nearest Village</td><td>Marwar Mundwa-0.36 km (South)</td></tr> </tbody> </table> </td></tr> </tbody> </table>	VIP reference points	Verification facts by IRO MoEFCC Jaipur visited on site 24.09.2025.		<p>The Environment Clearance obtained MoEFCC vide letter no F.No. J-11011/394/2010-IA-II (I) as per EIA notification 2006, based on an Environment Impact assessment study by NABET & MoEFCC -approved consultant. EC was granted after public consultation and recommendation, followed by appraisal by the EAC.</p> <p>The Distance related submitted facts and the physical verification details are given below;</p> <p>Submitted Details in EIA report;</p> <table border="1"> <thead> <tr> <th>Particulars</th><th>Details</th></tr> </thead> <tbody> <tr> <td>Nearest Village</td><td>Khain 1.5 km in North</td></tr> <tr> <td>Nearest Railway Station</td><td>Marwar-Mundwa (0.2km in south)</td></tr> <tr> <td>Nearest National Highway</td><td>NH-89 (Near boundary in East)</td></tr> </tbody> </table> <p>Details as per approximate physical verification and Google Earth analysis:</p> <table border="1"> <thead> <tr> <th>Particulars</th><th>Details</th></tr> </thead> <tbody> <tr> <td>Nearest Village</td><td>Marwar Mundwa-0.36 km (South)</td></tr> </tbody> </table>	Particulars	Details	Nearest Village	Khain 1.5 km in North	Nearest Railway Station	Marwar-Mundwa (0.2km in south)	Nearest National Highway	NH-89 (Near boundary in East)	Particulars	Details	Nearest Village	Marwar Mundwa-0.36 km (South)
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Nearest Railway Station	Marwar-Mundwa (0.9 km in south)												
Nearest National Highway	NH-58/earlier NH-89 (Near boundary 35 meter in East)												
	<p>Employment details mentioned in EIA report was 391 persons and currently total 836 persons have been employment from the industry, out of which 658 persons are of Rajasthan domicile. Apart from the direct employment, some indirect employment is also created.</p> <table><tr><th colspan="3">Manpower Details of Ambuja Cements Limited - Marwar Mundwa</th></tr><tr><th>Total Manpower</th><th>836</th><th>Percentage</th></tr><tr><td>Nagaur Domicile</td><td>507</td><td>61%</td></tr><tr><td>Rajasthan Domicile</td><td>658</td><td>79%</td></tr></table>	Manpower Details of Ambuja Cements Limited - Marwar Mundwa			Total Manpower	836	Percentage	Nagaur Domicile	507	61%	Rajasthan Domicile	658	79%
Manpower Details of Ambuja Cements Limited - Marwar Mundwa													
Total Manpower	836	Percentage											
Nagaur Domicile	507	61%											
Rajasthan Domicile	658	79%											
	<p>The company has conducted air, water, noise, and soil monitoring by an NABL-accredited laboratory regularly for monitoring and analysis of the pollution Level in and around the project site, and records related to the same were available on the site during the visit. Additionally, it is being regularly verified by the Regional Office of the Pollution Control Board.</p>												
	<p>As per the available records in the there is no EC issued to the KEC international in 1988 for the cement plant and mines for this project by RO, MoEF&CC, Sub-regional office, Jaipur.</p> <p>The First Environmental Clearance (EC) for mining lease ML-01 was granted to M/s Indo Nippon Special Cements Limited via letter No. J-11015/421/2005-IA.II(M), dated 18th January 2007. Subsequently, the EC was transferred to M/s Ambuja Cements Limited through MoEFCC letter No. J-11015/421/2005-IA.II, dated 20th April 2017. After the Name change Ambuja Cements Limited obtained the EC expansion from 2.5 to 3.0 Million tonnes per annum vide letter No.EC22A001 RJ199629 Dated 01/11/2022.</p>												

EDS Points	Reply
	<p>The initial Environmental Clearance (EC) for mining lease ML-II was granted to M/s Indo Nippon Special Cements Limited via letter No. J-11015/422/2005-IA.II(M), dated 18th January 2007. This EC was subsequently transferred to M/s Ambuja Cements Limited through MoEFCC letter No. J-11015/422/2005-IA.II, dated 28th March 2017. After the Name change, Ambuja Cements Limited obtained the EC expansion from 0.5 to 2.0 Million Tonnes per annum vide letter No.EC23A01RJ123775 dated 30.06.2023.</p> <p>The initial Environmental Clearance (EC) for the Integrated Cement Plant in the name of Ambuja Cements Limited was obtained from the Ministry of Environment, Forest and Climate Change (MoEFCC) following the Environmental Impact Assessment (EIA) study and public consultation, in accordance with the EIA Notification 2006. The clearance was granted via letter No. F. No. J-11011/394 /2010-IA-II(I), dated 05th May 2011, with a subsequent extension of validity and amendment issued on 31st August 2018. It is pertinent to mention that in none of the ECs, condition of establishing plant operations 4 KM away from the town has been categorically stipulated.</p> <p>It has been observed from the records that M/s Ambuja Cements Limited has obtained the environmental clearance after the scientific study done by NABET-approved consultants around the 15 km radius area.</p> <p>It is further noted from the records that Biodiversity, land use patterns, water availability and requirements, socio-economic study, agricultural activity, air, water, soil, noise pollution study, and all the studies, reports, and surveys included in the EIA report are recommended by the MoEFCC (EAC) committee during the ToR presentation. A baseline study and data were also collected by NABL & NABET approved laboratories and consultants.</p> <p>Subsequently, the company has also conducted air, water, noise, and soil monitoring by an NABL-accredited laboratory regularly for monitoring and analysis of the pollution Level in and around the project site, and records related to the same were available on the site during the visit. Additionally, it is being regularly verified by the Regional Office of the Pollution Control Board.</p>

EDS Points		Reply							
			Board. It was reported that the unit is working towards achieving its Net Zero target by 2050 and has undertaken some initiatives at the group level to support this goal. Details given in the sustainability report of 2024-25 are published and available on the official website of the company, which is attached in report as Annexure -07						
S. No	Particulars	Details							
1	Total land	263.76 Ha							
2	Land Acquisition details	The proposed expansion will be carried out within the existing plant premises. No additional land is required for expansion of proposed project. Khasra Nos. 36,37,38,39,40,41,42,44,45,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,71,72,73,74,75,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,110,112,114,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,136,136,137,138,139,140,351,352,353,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,386,387,388,486 at Marwar Mundwa (Village, Tehsil), Naguar (District), Rajasthan State							
3	Existence of habitation & involvement of R & R, if any	<table><tr><td>Habitation</td><td>Distance</td><td>Direction</td></tr><tr><td>Marwar Mundwa Town</td><td>0.2 Km</td><td>S</td></tr></table> R & R: Not applicable		Habitation	Distance	Direction	Marwar Mundwa Town	0.2 Km	S
Habitation	Distance	Direction							
Marwar Mundwa Town	0.2 Km	S							
S. No	Particulars	Details							
4	Latitude & Longitude	27° 03' 55.86" N - 27° 05' 17.95" N 73° 48' 25.9" E- 73° 49' 19.96" E							
5	Elevation	Highest – 364 MSL; Lowest –353 MSL.							

S. No	Particulars	Details																				
6	Involvement of Forest Land, if any	Not Applicable																				
7	Water body (Rivers, Lake s, Pond, Nala, Natural Drainage, Canal etc.) exist s within the project site as well as study area	<table><tr><th colspan="4">Water bodies</th></tr><tr><th>S. No</th><th>Name of the water body</th><th>Distance (K m)</th><th>Direction</th></tr><tr><td>1</td><td>Lakhola Talab</td><td>0.9</td><td>S</td></tr><tr><td>2</td><td>Gyan Talab</td><td>2.04</td><td>N</td></tr><tr><td>3</td><td>Jajra Talab</td><td>2.07</td><td>NW</td></tr></table> <p>(Source: All distance are taken with respect to S.O.I. GT sheet)</p> <p>There are found some Nadis 10 km radius of the Plant area Puna Nadi, Pinsarea Nadi, Adolab Nadi, Rupali Nadi, Kiyar Nadi, Visnani Nadi, Dhainda Nadi etc</p>	Water bodies				S. No	Name of the water body	Distance (K m)	Direction	1	Lakhola Talab	0.9	S	2	Gyan Talab	2.04	N	3	Jajra Talab	2.07	NW
Water bodies																						
S. No	Name of the water body	Distance (K m)	Direction																			
1	Lakhola Talab	0.9	S																			
2	Gyan Talab	2.04	N																			
3	Jajra Talab	2.07	NW																			
8	Existence	None within 10km study Area																				

S. No	Particulars	Details				
	of ES Z/ ES A/ na tiona l par k/ wi ldlife sanct uary/ bios pher e res erve/ tiger reser ve/ e lepha nt re serve etc. i f any withi n the stud y are a					
1.						
2.						
3.						
4.						
5.						1 x 1250 KVA 1 x 380 KVA

S. No.	Raw Material	Requirement (Million TPA)			Source	Distance from site (Kms)	Mode of Transportation
		Existing 3.0 MTPA	New Units Clinker 12.06 MTPA & Cement 10 MTPA	Total After Expansion			
1.	Limestone	4.25	16.356	20.606	Limestone Mines	-	By conveying system from ML-I and ML-II From 3D2 and HPB-20, initially by road for 5 years till completion of O LBC.
2.	China Clay	0.36	1.401	1.761	From Local Market	50	Road
3.	Red Ochre/Red mud	0.24/0.17	2.79 1.95	3.03/2.12	Chittaurgarh and Bhilwara/Hindalco	200 (Red ochre) 1200 (Red Mud)	Road (Red ochre) Rail (Red Mud)
4.	Gypsum	0.23	0.5	0.73	From Local Market, nearby area	50	Road
5.	Fly ash	0.69	3.5	4.19	Suratgarh TPP & Local Market	200	Road & Rail
6.	Slag	-	1.0	1.0	AMNS Hazira Plant & Nearby area	800	Road & Rail

S.No	Name	Quantity (TPD)			Calorific Value (Kcal./kg)	% Ash	% S	Source	Distance & Mode of Transportation
		Existing	New	Total after Expansion					
For Cement Plant									
1.	Coal (Domestic) (for 100% requirement)	1500 TPD	2 x 2230 TPD	8190 TPD	Domestic : 4500 kcal/kg	Domestic : 32% to 37% Imported : 10% - 16%	<1%	Chhattisgarh, Jharkhand, Orissa and other states	800 to 1500 KM By Rail / Road
	Coal (Imported) (for 100% requirement)	1125 TPD	3 x 1580 TPD	5865 TPD	Imported : 6000 Kcal/kg		<5%	Manibia, mozambicaustralian	
2.	Pet coke (for 100% requireme	900 TPD	3 x1290 TPD	4770 TPD	7500 Kcal/kg	~5%	5-9%	Domestic refineries (Imported)	650 to 700 km Rail & Road

S.No	Name	Quantity (TPD)			Calorific Value (Kcal./kg)	% Ash	% S	Source	Distance & Mode of Transportation
		Existing	New	Total after Expansion					
	nt)								
3.	Carbon Black (Alternate Fuel)	NA	37 TPD	50000 TPD	65 Kcal/kg	1-5 %	1-4%	Local market	100 Km by Road
4.	LDO (is used during start-up firing after shut down of boiler)	50 KL/startup	400 KL (300 for PH + 100 for kiln) 50 KL for Normal startup	500 KL/Plant	9750 Kcal/Kg	-	1.8%	Local market	100 Km by Road
5.	Other Alternative Fuels	650	1200	1850	2500 -3500 Kcal/Kg	25 - 35 %	-	Domestic sourcing from nearby industries	1000 Km by Road
	For CPP								
6.	Coal	-	930 TPD	930 TPD	3000-8200 Kcal/Kg	1 - 70 %	0.2 - 3 %	Domestic & international market	800 to 1500 km Rail & Road
PERIOD			Oct 2023 to Dec 2023						
AAQ PARAMETERS AT 10 LOCATIONS			PM2.5: 17.20-45.60 µg/m3 PM10 : 33.83- 78.28 µg/m3 SO2 : 7.60-18.01 µg/m3 NO2 : 14.68-36.19µg/m3 CO : 0.26- 1.06 mg/m3						
AAQ MODELLING (Incremental GLCs)			PM10 = 0.39 to 8.70 µg/m3 PM2.5= 0.27 to 2.19 µg/m3 SO2 = 0.33 to 7.29 µg/m3 NOx =0.41 to 9.11 µg/m3 CO =0.03 to 0.73 mg/m3						
GROUND WATER QUALITY AT 8 LOCATIONS			pH: 7.32 – 7.89 ,Total Hardness: 174 – 228 mg/l, Chlorides: 34 – 80 mg/l, Fluoride: 0.49 – 1.09 mg/l.						
SURFACE WATER QUALITY AT 2 LOCATIONS			pH: 7.65 – 7.89, TDS: 454.14 – 640.28 mg/l, Fluoride: 0.45 – 0.54 mg/l, Chloride: 30 – 40 mg/l, Total coliform-74-90 (MPN/100 ml)						
NOISE LEVELS AT 9 LOCATIONS			Industrial Area: Day 57.2 – 73.8 dB(A); Night 51.4– 68.3 dB(A); Residential Area: Day 37.1 – 54.8 dB(A); Night 37.1 – 42.8 dB(A); Silence Area: Day 38.2– 49.6 dB(A); Night 34.9 – 38.2 dB(A);						
TRAFFIC STUDY			V		C		Existing V/C		LOS

(Volume in PCU/hr.)	(Capacity in PCU/hr.)	Ratio	
353	1500	0.23	B (Very Good)

PCU load after proposed project will be 664 PCU/hr. and there is no change in level of service (LOS) and it will remain: 0.55

V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS
664	1500	0.44	C (Good)

* Note: Capacity as per IRC-106-1990 Guide line for capacity for roads.
Conclusion: The level of service will be C after including additional traffic due to proposed project.

For the initially Five year the limestone will be transported from 3D2 and HB20 by road to the plant. Total annual capacity of limestone transport is 6 MTPA and the daily 633 truck (55 tonne and 345 days) will play both sides which will add additional PCU/hr as 98. Hence the total PCU/hr will be 762 and LOS will be 0.50 (C Good)

Flora and fauna

S. No.	Type of waste	Source	Quantity generated (TPA)	Mode of Treatment	Disposal	Remarks
	Organic Waste (including Sewage sludge)	MSW from Office and household activities	25	Composting	Used as manure for green belt development	-
	In Organic	Office and plant activities like as metal, plastic, paper	15	Storage at earmarked site	Authorized PCB vendors	-
	Used Oil/Spent Oil	Plant and machinery	375	In isolated area with non-permeable concrete flooring	Through CPCB/SPB authorised Agency Recycler	-
	Wastes containing oil	Plant and machinery	225	In isolated area with non-permeable concrete flooring	Through CPCB/SPCB Authorised agency	-
	Used Oil Containers @30 x200L capacity	Plant	150	In isolated area with non-permeable	Through CPCB/SPCB authorised agency	-

S. No.	Type of waste	Source	Quantity generated (TPA)	Mode of Treatment	Disposal	Remarks
				concrete flooring	Recycler	

Action Plan as per OM dated 30.09.2020

CER budget for development programme of proposed expansion plan

S. No.	Activity	Physical Targets	Budget	Timeline				
				1st year	2nd Year	3rd Year	4th year	5th year
1	Infrastructure	Contribution towards strengthening of internal roads, drainage system, parking place, accident-free transportation system, signage, painting, plantation with maintenance, and beautification of public areas, community places of Mundwa Nagar Palika.	15	4	3	3	3	2
		Contribution towards strengthening of internal roads, drainage system, parking place, accident-free transportation system, signage, painting, plantation with maintenance, and beautification of public areas, community places of villages falling in study area.	15	5	3	3	3	1

CER budget for development programme of proposed expansion plan

S. No.	Activity	Physical Targets	Budget	Timeline				
				1st year	2nd Year	3rd Year	4th year	5th year
		Sports complex Development- at Villages falling under the study area.	5	1.5	1	1	1	0.5
		Library developed for Villages falling under the study area.	1.5	0.3	0.5	0.4	0.15	0.15
		SC/ST Youth development plan Development of E- Library with modern facilities . Sports Ground development with equipment. Community Hall for SC/ST in Mundwa Village.	2.5	1	1	0.5	0	0
		Community hall for various functions in Inana village	2	1	1	0	0	0
		Temple/road, Crematorium site development with cemented approach road, boundary wall, plantation and shed for Kherwad village & other villages falls under the study area.	4	2	1.2	0.8	0	0
		Parking signages and convex glasses outside the plant to avoid jamming on Mundwa-Inana route.	0.04	0.02	0.02	-	-	-
2.	Water resource	Pond Renovation in villages and de	10	2	2	2	2	2

CER budget for development programme of proposed expansion plan									
S. No.	Activity	Physical Targets	Budget	Timeline					
				1st year	2nd Year	3rd Year	4th year	5th year	
	Management	opening, Road repair work and new garden development, Plantation with 3 year maintenance and Temple Development in villages falling under the study area.							
3.	Cattle shelter	Cow shelter/ Goshala/ Nandishala will be developed in all nearby core Villages. Fodder shed with sanitation, water and fodder and other work. Land will be provided by Panchayat/Nagar palika.	15	5	5	3	2	0	
4.	Education	Renovation of government school buildings, new classrooms and furniture, smart classroom with digital education and free internet, computer lab, Library, water cooler, overhead water tank, BW, Separate Toilets for male and females, other school amenities in construction and infra support, solar support.	16	4	4	3.25	2.75	2	
		Contribution to Develop New school (construction, infra and esta	25	5	10	10	0	0	

CER budget for development programme of proposed expansion plan

S. No.	Activity	Physical Targets	Budget	Timeline				
				1st year	2nd Year	3rd Year	4th year	5th year
		blishment) with all amenities at near by project area in consultation with the local authority.*(Land to be provided by local community/ authority in consultation with local administration). HR Cost Including CER project Manager and field staff for CER project implementation.						
5.	Medical Facilities	Renovation & up gradation of Govt PHC/CHC for building and utility, medical equipment, Medical Beds, Drinking water storage tank, Water cooler, Air cooler, Ceiling fans, Toilets with overhead water tank and other suggest works,	10	2	2	2	2	2
6.	Anganwadi Development	Anganwadi Development- Renovation of center, Immunization, Poshahar-Nutrition support and WASH program.	0.25	0.05	0.05	0.05	0.05	0.05
7.	Drinking water supply	Water filter plant at the Lakholav and other ponds in core Village for drink water will be installed	0.5	0.1	0.1	0.1	0.1	0.1

CER budget for development programme of proposed expansion plan

S. No.	Activity	Physical Targets	Budget	Timeline				
				1st year	2nd Year	3rd Year	4th year	5th year
8.	women's empowerment - Livelihood and Entrepreneurship program	Skill based Training for self employment (Bio farming, Animal Husbandry, Vegetable/provision store, Beauty Parlor, Fancy store, Tailoring, stitching and Handicraft, Oil mill, flour mills, Bhandhej Work, Bengale work, Spices etc). Support Capital/ Raw Material to Set up Unit to start Enterprise (1 lakh per member maximum non refundable).	1.5	0.5	0.5	0.5	0	0
9.	Agro-based Livelihood Program	Crop Management training, Trichoderma support, Farm equipment distribution, Seeds distribution- new variety of high yield seeds, Expert visit, drip irrigation, farm pond development Animal husbandry/ Goat based Livelihood program to boost milk yield by providing supplements with quality feed, High yield breeding, shed management, nutrition management, Vaccination.	1.3	0.5	0.25	0.25	0.15	0.15
10.	Plantation	Patch Plantation 1000 trees in 10	2	0.4	0.4	0.4	0.4	0.4

CER budget for development programme of proposed expansion plan								
S. No.	Activity	Physical Targets	Budget	Timeline				
				1st year	2nd Year	3rd Year	4th year	5th year
		villages with fencing and watering till development and Maintenance for 3 years						
11.	Employment	Out of the total employment 457 Nos, the local employment from Mundwa Tehsil is 178 and from Nagaur Dist is 278. The proposed additional employment of 195 youth, local people, will be preferred based on eligibility.						
12.	Plantation at plant site	The project land is 263.76 ha out of which present green area is 85.10 ha which is 3.3% of total area with 90300 nos of trees. After expansion green belt will be increased to 90.36 ha (34.26% of total plant area) with plantation of 140800 Nos.	EMP Budget for expansion, Rs 420 Cr.					
13	R&D	R&D and interventions in field Climate Change Agriculture Education Skill Development Water Resource Plantation Entrepreneurship Development and other emerging requirement	5	1	1	1	1	1
14	Control of emission	PM emission level is being/will be maintained < 30 mg/Nm ³ and the Realtime levels are displayed at the plant Main gate and SPCB/CPCB website. CREP guidelines is being/will be implemented to control fugitive emission.						
	Total, Rs in Cr		131.59	35.37	36.02	31.25	17.6	11.35

Sl. No	Description of Item	Existing (Rs. In lakhs)		Proposed (Rs. In lakhs)	
		Capital Cost	Recurring cost	Capital Cost	Recurring cost
1	Air Pollution Control Equipment	12000	200	12635	499.5
2	Water sprinkling system	20	5	100	38
3	Water Pollution Control and Water management	115	30	125	30
4	Environment monitoring and Environment Cell	51	5	70	15
5	Greenbelt development and Plantation	200	40	230	52
6	Others (House Keeping, Vacuum cleaning machine, Environmental awareness program etc.)	250	10	90	28
	Total Cost of each plant	12636	290	13250	662.5
	No of Plants	1	1	7	7
	Total Cost	12636	290	42000	2100

Written submission by the PP:

S L N o	Additional Detail	Reply																		
1	The specific Air Quality Management Plan.	<p>ACL has taken the environmental safeguard measures to maintain the emission level well within the emission norms of PM less than 30mg/Nm³. The appropriate measures of air quality management for safeguard of the habitation of the Marwar Mundwa town towards southern boundary of the plant and sensitive areas as follows:-</p> <p>Ø Minimum 30m plantation all along the plant boundary will be completed by Fy 2027-28. Plantation towards Mundwa village will be having >50m width which will be completed by Fy 2027-28. The present greenbelt is 33% (85.1 ha) which will be increased to 34.26% (90.36 ha) within the 3 years. The overall plantation will be increased from 127650 nos. to 225900 nos. efforts will be made to increase plant density from 1500 to 2500 trees/ha. Year wise plantation details is given as below:</p> <table><tr><th colspan="6">Annual Plantation Details</th></tr><tr><th>Year</th><th>No. of Trees planted</th><th>Plant Survival</th><th>Area covered (Ha.)</th><th>Survival rate (in %)</th><th>Density</th></tr><tr><td>2025-202</td><td>1,27,650</td><td>103183</td><td>85.1</td><td>81%</td><td>1500</td></tr></table>	Annual Plantation Details						Year	No. of Trees planted	Plant Survival	Area covered (Ha.)	Survival rate (in %)	Density	2025-202	1,27,650	103183	85.1	81%	1500
Annual Plantation Details																				
Year	No. of Trees planted	Plant Survival	Area covered (Ha.)	Survival rate (in %)	Density															
2025-202	1,27,650	103183	85.1	81%	1500															

S L N o	Additional Detail	Reply																														
		<table><tr><td>6</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2026-2027</td><td>30000</td><td>27000</td><td>2</td><td>90</td><td>-</td></tr><tr><td>2027-2028</td><td>35000</td><td>31500</td><td>2</td><td>90</td><td>-</td></tr><tr><td>2028-2029</td><td>33250</td><td>29925</td><td>1.26</td><td>90</td><td>-</td></tr><tr><td>Total</td><td>2,25,900</td><td>1,91,608</td><td>90.36</td><td>85</td><td>2,500</td></tr></table> <p>Ø Existing boundary wall towards Mundwa village is of 3m height. An additional metal sheet of 4m will be installed towards the Mundwa village to check the dust particle travels towards the habitation.</p> <p>Ø The limestone will be transported by OLBC from mines to plant. The name of the limestone mining are Marwar Mundwa ML-I, Marwar Mundwa ML-II, Proposed 3D-2 Block limestone, Proposed Sarasani Harima Somna Limestone Block HPB-20.</p> <p>Ø The Major raw material coal will be received by railway and will be unloaded by wagon tippler having the water sprinkler to suppress the coal dust particles. The clinker to the sister units will be transported by railway. The overall transportation inward and Outward will be 56% by railway and 44% by road. However, road transportation will be reduced to utilised the railway.</p> <p>Ø The existing bag filters/bag house/ESP of line no. 1 installed at all material transfer points will meet the PM emission less than 30mg/Nm³.</p> <p>Ø The proposed bag filters/bag house/ESP of clinker line no. 2, 3, and 4 to be installed at all material transfer points will meet the PM emission <30mg/Nm³.</p> <p>Ø The existing and proposed storage facilities for Coal, limestone, additives, gypsum and AFR will be under close shed only.</p> <p>Ø All transfer belts will be covered.</p> <p>Ø Entire internal roads and parking area will be cemented and will be cleaned regularly by vacuum sweeping. The existing vacuum Machines are 3 nos. which will be increased 10 nos. (4 nos. truck mounted and 6 nos. small size.)</p> <p>Ø Water sprinklers will be provided in limestone and coal storage area to suppress the fugitive emission. The existing 3 nos. of fog canon will be increased to 10 nos. at coal, limestone and additives areas.</p> <p>Ø Dry tyre washing system will be installed for automated cleaning of the cement trucks.</p>	6						2026-2027	30000	27000	2	90	-	2027-2028	35000	31500	2	90	-	2028-2029	33250	29925	1.26	90	-	Total	2,25,900	1,91,608	90.36	85	2,500
6																																
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Total	2,25,900	1,91,608	90.36	85	2,500																											
2	Implementation of Electric vehicle for the inbound and outbound transportation.	<p>The target to meet the 30% EV for transportation of raw materials and products are given below:</p> <p style="text-align: center;">EV Proposal for Existing Operations</p> <p>Out of the total inbound and outbound frequency of vehicles calculated as 255 Nos. per day will be reduced to 178 Diesel based and remaining 30% that is 77 nos. will be EV based will be implemented as following year wise manner-</p> <table><tr><th>Month/Years</th><th>No. of Vehicles</th><th>%</th></tr><tr><td>1st Jan 2027</td><td>5</td><td>2</td></tr><tr><td>1st July 2027</td><td>18</td><td>7</td></tr><tr><td>1st January 2028</td><td>31</td><td>12</td></tr><tr><td>1st July 2028</td><td>51</td><td>20</td></tr></table>	Month/Years	No. of Vehicles	%	1st Jan 2027	5	2	1st July 2027	18	7	1st January 2028	31	12	1st July 2028	51	20															
Month/Years	No. of Vehicles	%																														
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1st July 2028	51	20																														

S L N o	Additional Detail	Reply																																							
		<table> <tr> <td>1st January 2029</td><td>64</td><td>25</td></tr> <tr> <td>1st July 2029</td><td>77</td><td>30</td></tr> </table> <p>EV Proposal for the Proposed expansion (Considering from start of production in the year 2027) Out of the total inbound and outbound frequency of vehicles calculated as 1004 Nos. per day will be reduced to 703 Diesel based and remaining 30% that is 301 nos. will be EV based will be implemented as following year wise manner-</p> <table> <tr> <th>Month/Years</th><th>No. of Vehicles</th><th>%</th></tr> <tr> <td>1st July 2027</td><td>20</td><td>2</td></tr> <tr> <td>1st January 2028</td><td>70</td><td>7</td></tr> <tr> <td>1st July 2028</td><td>120</td><td>12</td></tr> <tr> <td>1st January 2029</td><td>201</td><td>20</td></tr> <tr> <td>1st July 2029</td><td>251</td><td>25</td></tr> <tr> <td>1st January 2030</td><td>301</td><td>30</td></tr> </table>	1st January 2029	64	25	1st July 2029	77	30	Month/Years	No. of Vehicles	%	1st July 2027	20	2	1st January 2028	70	7	1st July 2028	120	12	1st January 2029	201	20	1st July 2029	251	25	1st January 2030	301	30												
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3.	Commitment for OLBC installation from Limestone Mines to Cement Plant	<p>Ø The existing crusher and OLBC having capacity of 2000 TPH will be used to transport the limestone transportation from Marwar Mundwa ML-1 & Marwar Mundwa ML-2 to Cement Plant. Further it is proposed to install the additional OLBC at auctioned blocks (3D2 and HPB20) & Marwar Mundwa ML-1 to transport the limestone to cement plant which will be completed with the start of production from proposed clinker line no. 2,3, & 4. Hence, the limestone from the day one from all above 04 nos limestone mine will be transported by OLBC to the Marwar Mundwa cement plant.</p>																																							
4	Revised PH Action Plan with increase of public hearing compliance budget from 55.81 cr to 130 cr.	<p>Socio-Economic Development Plan as per OM dated 30.09.2020 along-with physical targets and timeline is prepared incorporating issues raised during public hearing held on 27.05.2025</p> <p>The breakup of the budget is given as below:</p> <table> <tr> <th>SN</th><th>CER Activity</th><th>Budget, Rs in Cr</th></tr> <tr> <td>1</td><td>Infrastructure</td><td>45.04</td></tr> <tr> <td>2</td><td>Cattle shelter</td><td>15</td></tr> <tr> <td>3</td><td>Education</td><td>41</td></tr> <tr> <td>4</td><td>Medical Facilities</td><td>10</td></tr> <tr> <td>5</td><td>Anganwadi Development</td><td>0.25</td></tr> <tr> <td>6</td><td>Drinking water supply</td><td>0.5</td></tr> <tr> <td>7</td><td>Water resource Management</td><td>10</td></tr> <tr> <td>8</td><td>Women's empowerment</td><td>1.5</td></tr> <tr> <td>9</td><td>Agro-based Livelihood Program</td><td>1.3</td></tr> <tr> <td>10</td><td>Plantation</td><td>2.0</td></tr> <tr> <td>11</td><td>Academic and industry research initiatives with Govt reputed institute on climate resilient research for farmer's income generation and water conservation</td><td>5.0</td></tr> <tr> <td></td><td>Total</td><td>131.59</td></tr> </table> <p>Note: All the above-mentioned socio-economic development will be implemented in the villages of the study area as well as along the villages of proposed OLBC route for expansion.</p>	SN	CER Activity	Budget, Rs in Cr	1	Infrastructure	45.04	2	Cattle shelter	15	3	Education	41	4	Medical Facilities	10	5	Anganwadi Development	0.25	6	Drinking water supply	0.5	7	Water resource Management	10	8	Women's empowerment	1.5	9	Agro-based Livelihood Program	1.3	10	Plantation	2.0	11	Academic and industry research initiatives with Govt reputed institute on climate resilient research for farmer's income generation and water conservation	5.0		Total	131.59
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S l. N o	Additional Detail	Reply
		The item wise details of the PH action plan is submitted and updated at relevant para above.

3.1.3. Deliberations by the committee in previous meetings

N/A

3.1.4. Deliberations by the EAC in current meetings

Deliberations by the Committee

1. The instant proposal is for expansion of Integrated Cement Plant (Clinker: 3.0 MTPA to 15.06 MTPA, Cement: 4.5 MTPA to 14.5 MTPA, CPP: 50 MW (No Change), WHRS 15 MW to 87 MW, DG Set (9190 kVA), AFR Pre-processing & Feeding System (4250 TPD), Synthetic Gypsum Plant (5000 TPD) and Fly Ash Dryer: 1000 TPD, Railway siding with Wagon Tippler & Loader by Installation of new Line – 2, 3 & 4 and Plant Residential Colony.
2. The existing project was accorded environmental clearance vide letter No: J-11011/394/2010-IA-II (I) dated 5th May, 2011 for Integrated Cement Project i.e. Clinker (3.0 Million TPA), Cement (4.5 Million TPA), Captive Power Plant (50 MW) & Waste Heat Recovery Boiler (9.0 MW) at Village – Marwar Mundwa, Tehsil & District: Nagaur (Rajasthan) of M/S Ambuja Cements Limited.(Extent-285.10 ha). The MoEF&CC granted extension of validity for further 3 years upto 4th May 2021 and amendment in reduction in area from 285.10 ha to 263.76 ha of the existing EC vide letter no. Z-11011/6/2013 – IA.II (I)pt dated 31st August 2018. The existing project was accorded Consent to Operation vide Reference No. F(CPM)/Nagaur(Nagaur)/3(1)/2022- 2023/5041-5043dated 03/11/2023. The validity is valid up to 31/10/2028. In addition Consent to Operate for the existing Waste Heat Recovery Boilers (WHRB):6 MW was accorded by Rajasthan State Pollution Control Board vide Ir. No. F(CPM)/Nagaur(Nagaur)/3(1)/2022-2023/107-109 Dated 6.4.2023. The validity of CTO is up to 30.06.2027.
3. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
4. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
5. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
6. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
7. The EAC reviewed the compliance statement submitted by the project proponent regarding the applicability of MoEF&CC's Office Memorandums and Notifications to their proposal which include aspects such as land acquisition status / presence of streams or nallahs within the site / validity of baseline data / validity of the Certified Compliance Report / validity of the Public Hearing (PH), among

other relevant factors. Upon examination, the Committee observed that the proposal pertains to an expansion within the existing premises, involving only a marginal additional area, and found it suitable for further appraisal.

8. While appraising the proposal, the Committee noted that there are representations, including VIP references, regarding the project, and accordingly, details were also sought at EDS stage. The submissions of PP, in this regard, are placed at Point no.11 of the EDS Response, at Para 19.1.5 above. The Committee also took note of the fact that the IA-CMD, MoEFCC is already dealing with the issue being the nodal division to deal with compliance and monitoring, and a factual report is sought from Sub-Regional Office Jaipur, under MoEF&CC Regional Office, Gandhinagar. The PP's summarised response is based on the same factual report. The Committee noted that the RO MoEFCC has addressed the issues based on a site inspection, and has already submitted its response to the IA CMD. A perusal of the factual report submitted by RO MoEFCC (Sub-Office Jaipur) has indicated that the issues raised by Hon'ble MP have been duly examined, and there is no adverse observations w.r.t. issuance of previous ECs, plant's location, employment, plant's operation, and proposed plan to achieve net zero target in 2050.
9. The total area for the proposed plant is 263.76 Ha. The land is under the possession of the company and diverted for industrial purpose use. The proposed expansion will be carried out within the existing plant premises. No additional land is required for expansion of proposed project.
10. Marwar Mundwa Town is at a distance of 0.2 km in South of project site along with other sensitive areas within the study area of the project site. The EAC opined that in view of the habitation nearby, PP is required to take strict environmental safeguards to minimise the impact of industrial activities on the local population. Accordingly, EAC asked the **the PP to install wind breaker/ wind shield arrangement towards the Mundwa village for arresting the dust within industrial premises, and develop 50 m greenbelt towards the village. The project proponent may further strengthen the green belt all around the plant area to reduce the dust pollution.** The PP shall also include some of the habitations in its environmental monitoring programme to assess the effectiveness of the measures so employed.
11. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
12. Lakhohlaw Talab is at a distance of 0.9 km in South along with other water bodies within the study area of the project site. The EAC opined that robust drainage conservation measures shall be implemented to protect the natural drainage, and its flow parameters, duly covering soil conservation and multiple erosion control measures.
13. Existing water requirement is 2000 KLD, which is met from three sources namely (i) PHED Nagaur, permission letter dated 31/10/2017 (200 KLD), (ii) Marwar Mundwa Nagar Palika for supply for domestic sewage water for further treatment in STP (300 KLD) and (iii) Brackish Raw Water supply from Kasнау Matasukh Lignite Mines, District Nagaur (Agreement for 3000 KLD in between ACL & RSMML dated 06/02/2019). The additional water requirement for the proposed expansion is 4835 KLD and the additional source of water will be Nagar Palika Nagaur to supply 2000 KLD Sewage water for treatment in STP. The additional water of 1505 KLD will be supplied from Plant STP (535 KLD) and ETP (970). After the expansion the total water requirement will be 6835 KLD and the source will be 7005 KLD. The EAC deliberated on the water requirement and opined that necessary permission shall be obtained from the Competent Authority.
14. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and opined that a project specific AAQ plan shall be prepared and implemented. The PP submitted a detailed plan comprising enhancement of greenbelt (minimum 30 m along plant boundary and >50 m towards Marwar Mundwa village), increase in plantation density, installation of additional physical barriers, covered storage and transport of raw materials, increased rail-based transportation, high-efficiency bag filters/ESP to maintain PM emissions <30 mg/Nm³, paved internal roads with mechanized cleaning, water sprinkling/fog cannons, and automated tyre washing systems. **The Committee advised the PP to ensure time-bound implementation and regular monitoring. Further, the EAC advised the PP to ensure that particulate matter emissions from the existing and revamped production units are maintained within 20 mg/Nm³. The PP committed to meet stricter standards of PM i.e. 20 mg/Nm³, during appraisal.**

15. The Committee deliberated on the proposal for phase-wise adoption of electric vehicles (EVs) for inbound and outbound transportation of raw materials and finished products. The PP informed that a target of 30% EV-based transportation has been planned for both existing operations and the proposed expansion. For existing operations, the PP proposed to progressively replace diesel vehicles to achieve 30% EV penetration (77 vehicles/day) by July 2028, while for the proposed expansion, 30% EV adoption (301 vehicles/day) is proposed by January 2029. The start of production is proposed in 2027. **The Committee noted the phased EV implementation schedule and advised the PP to ensure timely achievement of the proposed targets, along with development of requisite charging infrastructure and periodic reporting on implementation progress through compliance reports.**
16. It is reported that as per the Wildlife Amendment Act, 2022 there are 7 nos of schedule-I species present in the study area i.e. Jackal, Black buck, Indian Gazelle/Chinkara, Indian grey mongoose, Indian crested porcupine, Peacock and Shikara. Wildlife Conservation Plan has been submitted to DCF Nagaur for their further approval vide our letter dated 23.12.2025. The cost of Conservation Plan will be Rs. 166.88 Lakhs. The EAC opined that the recommendations of the approved plan shall be strictly implemented in consultation with the State Forest Department.
17. The Committee also deliberated on the public hearing issues and the revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
18. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LIFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.
19. Existing green belt has been developed in 85.10 ha area which is about 33 % of the total project area of 263.76 ha with total sapling of 127650 Trees. Proposed greenbelt will be developed in 5.26 ha. Thus, total of 90.36 ha area (34.26% of total project area 263.76 ha) will be developed as greenbelt. Total no. of 13,150 saplings will be planted and nurtured in 5.26 hectares in next 3 years. The EAC deliberated on the greenbelt action plan and is of the opinion that greenbelt shall be completed within a period of 1 year in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025.
20. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
21. The EAC deliberated on the certified compliance reports obtained from Regional Office, and found it satisfactory.
22. **The Committee asked PP to make submissions on limestone sourcing for the cement plant expansion proposal. The PP submitted that limestone from the existing mines and newly auctioned blocks would be utilised. The expansion of existing mines is also proposed. The mines shall also be utilized for other nearby units, and accordingly, the present application has been submitted without interlinking of proposals.**
23. The Committee deliberated on the PP's commitment for installation and use of Overland Belt Conveyor (OLBC) systems for transportation of limestone from the mines to the cement plant. The PP informed that the existing crusher and OLBC system of 2000 TPH capacity will be utilized for transportation of limestone from Marwar Mundwa ML-I and ML-II. **Further, additional OLBC systems are proposed to be installed from the auctioned limestone blocks (3D-2 and HPB-20) and Marwar Mundwa ML-1, which shall be completed and commissioned along with the start of production of proposed clinker lines no. 2, 3 and 4. In view of the submissions, Committee noted as below:**
24. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.
25. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
26. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed

under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

27. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

3.1.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

3.1.6. Details of Environment Conditions

3.1.6.1. Specific

Specific	
1.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
2.	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
3.	The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
4.	The Captive Power Plant(s) using coal or lignite shall comply with emission standards notified vide G.S.R. 465(E) dated 11-07-2025.
5.	Marwar Mundwa Town is at a distance of 0.2 km in South of project site along with other sensitive areas within the study area of the project site. Project proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The PP shall Install Wind breaker/ wind shield towards the Mundwa village for reducing the dust propagation. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution specifically including 50 m greenbelt towards village. The PP shall also include some of these locations in its environmental monitoring programme.
6.	Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.

7.	Lakholaw Talab is at a distance of 0.9 km in South along with other water bodies within the study area of the project site. Robust drainage conservation measures shall be implemented to protect the natural drainage, and its flow parameters, duly covering soil conservation and multiple erosion control measures.
8.	The additional water requirement for the proposed expansion is 4835 KLD and the additional source of water will be Nagar Palika Nagaur to supply 2000 KLD Sewage water from for treatment in STP. The additional water of 1505 KLD will be supplied from Plant STP (535 KLD) and ETP (970). After the expansion the total water requirement will be 6835 KLD. Necessary permission shall be obtained from the Competent Authority.
9.	PP shall ensure time-bound implementation and regular monitoring of specific AAQ Plan. Further, PP shall ensure that particulate matter emissions from new production units shall be maintained below 20 mg/Nm³. Further, existing units may be revamped to achieve 20 mg/Nm³, within two years.
10.	PP shall ensure timely achievement of the proposed EV targets, such that existing production shall achieve 30% EV penetration (77vehicles/day) by July 2028, while transportation for enhanced production (as per instant expansion proposal) shall achieve 30% EV adoption (301vehicles/day) by January 2029. As committed, PP shall also develop requisite charging infrastructure, and undertake periodic reporting on implementation progress.
11.	Green Belt shall be developed and maintained in the project area in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025 within a period of 1 year. As committed, total of 90.36 ha area (34.26%) will be developed as greenbelt (existing - 85.10 ha + Proposed 5.26 ha area).
12.	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at (https://merilife.nic.in).
13.	PP shall ensure that limestone from all four limestone mines shall be transported exclusively through OLBC only. Accordingly, PP shall update compliance on implementation of the proposed OLBC systems in half yearly compliance reports
14.	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented, which is amounting to Rs.131.59 Crores. The action plan shall also cover activities related to (i) promotion of environmental education and awareness (including green skills), and (ii) sub-plan to address the vulnerable sections (such as the elderly, children, pregnant women, persons with disabilities, and the terminally ill). An institutional mechanism shall be developed for monitoring the implementation of the commitments made, which shall also manage and address public grievances. The progress of implementation of PH Action plan and grievance redressal shall be submitted regularly to the Regional Office of MoEF&CC.
15.	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village in consultation with the State Administration.
16.	PP shall implement the skill development programs, in alignment with relevant Government initiatives/programmes (like Mission LIFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC.

1 7.	PP shall Install CO sensors with alarms at strategic locations in the Plant.
1 8.	PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.
1 9.	PP shall establish a dedicated in-house Research & Development (R&D) cell aimed at identifying, evaluating, and implementing emerging clean technologies. The focus of this cell will be on enhancing process efficiency, minimizing waste generation, and promoting circular economy practices within the plant operations. The effectiveness of the R&D initiatives shall be reviewed periodically, and outcomes contributing to sustainability shall be documented and reported
2 0.	The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded, compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.
2 1.	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

3.1.6.2. Standard

3(b)	Cement plants
Statutory compliance	
1.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
2.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
Air Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission,

	and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
3.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
4.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
5.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
6.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
7.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
8.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
9.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
10.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
11.	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
12.	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
13.	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
14.	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
15.	The particulate matter emissions from the process stacks shall be less than 20 mg/Nm³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
16.	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c.

	Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
Air Quality Monitoring and Preservation in case of Integrated Cement Plants	
1.	Provide Low NO _x burners as primary measures and SCR /NSCR technologies as secondary measure to control NO _x emissions.
2.	The emission norms applicable for the cement plant shall be adhered to.
3.	Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.
4.	DeSO _x system shall be provided dry type. NO _x level shall be maintained below 600 mg/Nm ³ by using best available technology.
5.	Petcoke dosing shall be controlled automatically to control SO ₂ emission from chimney within the prescribed limits.
6.	PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.
7.	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
8.	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
9.	The coal dust should be monitored at coal unloading, crushing, furnace/ kiln areas and should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.
Water Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
3.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
4.	Water meters shall be provided at the inlet to all unit processes in the plants.
5.	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
6.	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.

7.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
8.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
9.	Air Cooled condensers shall be used in the captive power plant.
Noise Monitoring and Prevention	
1.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
2.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
3.	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.
Energy Conservation Measures	
1.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
2.	Provide LED lights in their offices and residential areas.
Energy Conservation Measures in case of Integrated Cement Plants	
1.	The project proponent make efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
2.	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.
3.	Maximize utilization of alternate fuels and Co-processing to achieve best practice norms.
4.	Waste heat recovery system shall be provided for kiln and cooler.
Waste Management	
1.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
2.	Kitchen waste shall be composted or converted to biogas for further use.
3.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
4.	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the

	compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
5.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
Green Belt	
1.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
2.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
3.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
Public Hearing and Human Health Issues	
1.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
3.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
4.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
Environment Management	
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
2.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

3.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.
Miscellaneous	
1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
2.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
5.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
6.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
7.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
8.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
9.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
10.	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
11.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three

	years, in the company web site for the information to public/public domain.
1 2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
1 3.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
1 4.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
1 5.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
1 6.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
1 7.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Expansion of existing Integrated Cement Plant of Dalmia Cement (Bharat) Ltd. by installation of a new line of clinkerisation & cement grinding at District: YSR Kadapa, Andhra Pradesh. by DALMIA CEMENT (BHARAT) LIMITED located at Y.S.R.,ANDHRA PRADESH			
Proposal For		Expansion EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
IA/AP/IND1/542780/2025	J-11011/76/2007-IA-II(IND-I)	30/12/2025	Cement plants Integrated Cement plants and Grinding units (3(b))

3.2.2. Project Salient Features

[Proposal no.: IA/AP/IND1/542780/2025: File No. IA-J-11011/76/2007-IA-II (IND-I)] [Consultant: Perfect Enviro Solutions Pvt. Ltd.; Valid upto: 26.11.2028]				
Date of application	Consideration	Details	Date of accord	ToR Validity
18.03.2024	60 th EAC (Industry-1) meeting held on 11 th and 12 th June, 2024	Terms of Reference	01.07.2024	30.06.2028

3.2.3. Deliberations by the committee in previous meetings

3.2.4. Deliberations by the EAC in current meetings

- i. The Committee took note of the information submitted by the PP regarding the ongoing litigations, including the proceedings before the Hon'ble High Court of Andhra Pradesh and the pending appeal before the Appellate Authority under the Prevention of Money Laundering Act (PMLA).
- ii. The Committee noted that the writ petitions before the Hon'ble High Court relating to the public hearing process have been disposed of with directions to follow the procedure prescribed under the EIA Notification, 2006
- iii. The matter relating to provisional attachment of certain project land parcels under the PMLA is pending before the Appellate Authority. The Committee observed that, although the PP has stated that the attachment is provisional in nature and does not legally restrict the use of land, clarity is required with respect to the status of the project land proposed for the present expansion. In view of the pending proceedings before the Appellate Authority concerning provisional attachment of land, the Committee opined that clarity on the same is essential prior to further appraisal.
- iv. Accordingly, the Committee concluded that it is not competent to comment on the PMLA case in this project. The EAC told PP that they should submit all legal documents related to the case to Ministry, and based on legal and other documents so submitted, the Ministry may decide whether the project can be appraised or not by EAC- Industry-1.

Recommendations of the Committee

3.2.5. Recommendation of EAC

Returned in present form

3.3. Agenda Item No 3:

3.3.1. Details of the proposal

Proposed Expansion of Steel Plant for Steel Tubes & Pipes Unit (Black Galvanised, Precision Tubes, ER W/CDW/Annealed Pipes, Fabrication Structure) from 72000 TPA to 420000 TPA, Fabricated and Painted Structure Unit from 18000 TPA to 72000 TPA, Continuous Galvanized Unit (CGI Sheets-72000 TPA-No change), Steel Tubes Pipes Unit (48000 TPA-No change), New Flange, Shaft and Forged Product Unit (48000 TPA) and New Coil Pickling Unit (20000 TPA) by M/s. Goodluck Metallica (Unit of Goodluck India Limited) by GOODLUCK INDIA LIMITED located at KACHCHH, GUJARAT			
Proposal For		Expansion EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
IA/GJ/IND1/557413/2025	IA-J-11011/240/2023-I A-II(IND-I)	19/12/2025	Metallurgical Industries (ferrous and non ferrous) Integrated Steel Plants (3(a))

3.3.2. Project Salient Features

[Proposal no.: IA/GJ/IND1/557413/2025: File No. IA-J-11011/240/2023-IA-II (IND-I)]
[Consultant: Perfect Enviro Solutions Pvt. Ltd.; Valid upto: 02.11.2030]

Date of application	Consideration	Details	Date of Accord	TOR Validity				
10.07.2023	Standard TOR issued	Terms of Reference	20.07.2023	19.07.2028				
The company was directed by GPCB in November 2021 to obtain Environmental Clearance in compliance with the Hon'ble NGT order dated 20.10.2020. Accordingly, in pursuance of the EIA Notification S.O. 325 O(E) dated 20.07.2022 issued by MoEF&CC and its extension dated 26.07.2023, a ToR application was submitted to the Gujarat-SEAC in November 2022, which was subsequently withdrawn from the PARIVESH portal and the withdrawal was acknowledged by SEIAA-Gujarat in April 2023. Thereafter, the company applied to MoEF&CC and obtained Standard Terms of Reference in July 2023 for a total land area of 30.8271 ha, comprising existing and proposed expansion land. However, as the proposed expansion land could not be acquired, the EIA prepared under the said ToR was not taken forward and the ToR was not further pursued. Subsequently, owing to a change in project configuration, a fresh ToR application was submitted in 2025 for expansion activities proposed within the existing land area of 21.489 ha. Upon Essential Details Sought (EDS) being raised in the 2025 ToR proposal, the company opted to proceed under the regularization route and accordingly submitted an application for Environmental Clearance in November 2025 strictly in accordance with the ToR dated 20.07.2023 along with the EIA/EMP, Form and certified compliance report, in accordance with the provisions of the EIA Notification, 2006.								
Details of EDS sought by Ministry		Reply of PP						
The Form is not filled properly, and in compliance of ToR. PP may revisit its submissions and resubmit the application.		The application has been revisited in line with the ToR requirements, and the necessary corrections have been duly incorporated. Accordingly, the revised application has been resubmitted along with the updated EIA application for your kind consideration.						
S. No.	Particulars	Details			Remarks			
1	Total land	Total land: 21.4943 ha				Land use: Industrial Land and		
		S.N o.	Particular	Existing Area, m ²	Proposed area (m ²)		Total area (m ²)	%
		A	Processing Area					
		1	Manufacturing plant	43542	0		43542	20.26
		2	Furnace Shed	6160	0		6160	2.87
		3	Trail assembly area	34405	0		34405	16.01
		B	Utility Area					
		1	Power Station	792	0		792	0.37
		2	Cooling Tower	400	0		400	0.19
		3	Admin (Security Cabin, Toilet Block, Canteen, Lab. Misc.,	2798	0		2798	1.30
		4	Stock Yard Rolling Mills	4800	0		4800	2.23

S. N o.	Particulars	Details						Remarks																																																																		
		5	Shed (RM stor age)	4544	0	4544	2.11																																																																			
		6	Hazardous wa ste storage are a	440	0	440	0.20																																																																			
		7	Parking	350	0	350	0.16																																																																			
		8	Greenbelt	19340	23649	42989	20.00																																																																			
		9	Internal Road	9600	0	9600	4.47																																																																			
		10	Open Area	87772	23649	64123	29.83																																																																			
		Total Area, m ²		21494 3	-	214943	100																																																																			
2	Land acquisition d etails as per MoE F&CC O.M. dated 7/10/2014	Total land area 21.4943 ha is already acquired. The land h as been converted from Agricultural to industrial use from the Collector office, Kachchh-Bhuj Vide Certificate No. Ja man-7-N.A.-65-B-Case No. 8/2017-18, No. Jaman-7-N. A.-65-B-Case No.9/2017-18 and No. Jaman-7-N.A.-65- B-Case No. 10/2017-18 dated 11.01.2018						-																																																																		
3	Existence of habit ation & involveme nt of R&R, if any.	Project site: Nil Study Area: <table><tr><td>Nearest Habitat ion</td><td>Distance</td><td>Direction</td></tr><tr><td>Shikara</td><td>1.01 km</td><td>West</td></tr></table>						Nearest Habitat ion	Distance	Direction	Shikara	1.01 km	West	R& R- N/A																																																												
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5	Elevation of the project site	35 m to 49 m above mean sea level (as per google earth)																																																				
6	Involvement of Forest land if any	No forest land is involved in the project for the same a clarification has been obtained for non-involvement of forest land from Chief Conservator of Forests, Kutch Forest circle, Bhuj vide letter No. K/JMN/TE.9/960-61/2024-25 dated 14.02.2025.																																																				
7	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal, etc.) exists within the project site as well as study area	<p>Project site: Nil Study area:</p> <table><tr><th>Water body</th><th>Distance</th><th>Direction</th></tr><tr><td>Pond near Project Area</td><td>0.08 Km</td><td>S</td></tr><tr><td>Pond near Project Area</td><td>0.09 Km</td><td>S</td></tr><tr><td>Drain near Sikra</td><td>0.45 Km</td><td>WNW</td></tr><tr><td>Pond near Project Area (not showing Topomap)</td><td>0.71 Km</td><td>ENE</td></tr><tr><td>Kachchh Branch Canal (not Showing Topomap)</td><td>3.49 Km</td><td>SE</td></tr><tr><td>Khambharadi Lake</td><td>5.39 Km</td><td>W</td></tr><tr><td>Batiya Pond</td><td>5.96 Km</td><td>SSE</td></tr><tr><td>Bhachau Lake</td><td>6.60 Km</td><td>SSE</td></tr><tr><td>Gadasar Pond</td><td>7.15 Km</td><td>SSE</td></tr><tr><td>Pakadsar Pond</td><td>7.24 Km</td><td>WSW</td></tr><tr><td>Chopadva Pond</td><td>7.50 Km</td><td>SW</td></tr><tr><td>Dhokav Drain</td><td>8.12 Km</td><td>SSW</td></tr><tr><td>Mayanwala Drain</td><td>8.58 Km</td><td>SE</td></tr><tr><td>Dalwala Drain</td><td>8.67 Km</td><td>SSE</td></tr><tr><td>Katwala Drain</td><td>9.27 Km</td><td>SSE</td></tr><tr><td>Jasulai Pond</td><td>9.43 Km</td><td>SE</td></tr></table>	Water body	Distance	Direction	Pond near Project Area	0.08 Km	S	Pond near Project Area	0.09 Km	S	Drain near Sikra	0.45 Km	WNW	Pond near Project Area (not showing Topomap)	0.71 Km	ENE	Kachchh Branch Canal (not Showing Topomap)	3.49 Km	SE	Khambharadi Lake	5.39 Km	W	Batiya Pond	5.96 Km	SSE	Bhachau Lake	6.60 Km	SSE	Gadasar Pond	7.15 Km	SSE	Pakadsar Pond	7.24 Km	WSW	Chopadva Pond	7.50 Km	SW	Dhokav Drain	8.12 Km	SSW	Mayanwala Drain	8.58 Km	SE	Dalwala Drain	8.67 Km	SSE	Katwala Drain	9.27 Km	SSE	Jasulai Pond	9.43 Km	SE	-
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8	Existence of ESZ/ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	<p>Study area</p> <p>Name of the ESZ/ESA: Rann of Kutch Wildlife Sanctuary.</p> <p>Status of Notification: Eco-Sensitive Zone (ESZ), notified vide MoEF&CC Notification No. S.O. 3150(E) dated 29.08.2019</p> <p>Distance of project from ESZ/ESA: Rann of Kutch Wildlife Sanctuary: 7.2 km and its Eco-Sensitive Zone (ESZ): 6.2 km</p> <p>Authenticated map of ESZ projecting distance of ESZ from project site: NOC obtained from the Chief Conservator of Forests, Kutch Forest Circle, Bhuj vide letter No. K/JMN/TE.9/960-61/2024-25 dated 14.02.2025 mentioning that Rann of Kutch Wildlife Sanctuary is located at 7.2</p>																																																				

S. N o.	Particulars	Details				Remarks
		km from the project site and its Eco-Sensitive Zone (ESZ) is 6.2 km from project site. Status of NBWL approval: NA List of Reserved and protected forests: None (A letter has been obtained by Chief Conservator of Forests, Kutch Forest circle, Bhuj vide letter No. K/JMN/TE.9/960-61/20 24-25 dated 14.02.2025 for non-involment forest)				
S. No.	Plant equipment/ Facility			Existing Configuration		
1.	Annealing Furnace			1 x 2TPH		
2	Continuous Galvanizing Plant			-		
3	Non-IBR Boiler			2 x 850 Kg/Hr		
4	Hot Water Generator (Attached to MEE)			-		
5	DG Set			1 x 125 kVA		
S.N o	Raw Material	Quantity requir ed per annum	Source (Local/Import)	Distance fro m site (Kms)	Mode of Trans portation	
1	Lead	50	Local	431.5	Road	
2	HR Coil	2,16,000	Local /Import	855.8	Road/Sea	
3	Zinc	2000	Local	431.3	Road	
4	HCl	7500	Local	487	Road	
5	Paint	7200	Local	70	Road	
6	Rolled Product & Pl ates	1500	Local	1683.7	Road	
7	Billet/Round	-	Local	-	Road	
Period		Baseline Data collection Period March 2023-May2023				
AAQ parameters at 8 L ocations (min and max)		PM _{2.5} = 41.03 µg/m3 to 49.64 µg/m3 PM ₁₀ = 80.75 µg/m3 to 97.71 µg/m3 SO ₂ = 6.49 µg/m3 to 7.86 µg/m3 NO _x = 17.66 µg/m3 to 21.37 µg/m3 CO = 0.37 mg/m3 to 0.44 mg/m3 Lead = BDL				

Incremental GLC level	<p>The worst case scenario (Normal or With APCS (Modeled on regulatory discharge norms) has been considered.</p> <p>PM₁₀ : 0.916 µg/m³ PM_{2.5}: 0.649 µg/m³ NO₂ : 3.93 µg/m³ SO₂ : 1.66 µg/m³ CO: 0.008 mg/m³</p>																				
Ground water quality at 8 locations	<p>pH: 6.72 to 7.68 Total Hardness: 152 mg/l to 1240 mg/l Chlorides: 106 mg/l to 439.86 mg/l Fluoride: 0.17 mg/l - 1.05 mg/l Heavy metals (Cadmium) : <0.001 -<0.001 Lead = <0.25</p>																				
Surface water quality at 04 Locations	<p>pH: 7.10 - 7.24 DO: 4.0 mg/l - 4.2 mg/l BOD: 24.7 mg/l - 39.2 mg/l COD: 96 mg/l - 152 mg/l Lead = <0.25</p>																				
Noise levels Leq (Day and Night) at 09 Locations	56.3 to 73.1 dBA for the day time and 46.9 to 67.4 dBA for the night time.																				
Traffic assessment study findings	<ul style="list-style-type: none">• A traffic survey was carried out on both sides (up & down) of the Bhuj - Bhachau Highway (42). Vehicles were observed and the count was recorded for 24 hours.• Existing : <table><tr><th>Road</th><th>V(Volume in PCU/hr.)</th><th>C (Capacity in PCU/hr.)</th><th>Existing V/C Ratio</th><th>LOS</th></tr><tr><td>Bhuj -Bhachau Highway (42)</td><td>856</td><td>6120</td><td>0.14</td><td>A</td></tr></table> <ul style="list-style-type: none">• Proposed : <table><tr><th>Road</th><th>V (Volume in PCU/hr)</th><th>C (Capacity in PCU/hr.)</th><th>Proposed V/C Ratio</th><th>LOS</th></tr><tr><td>Bhuj -Bhachau Highway (42)</td><td>856 + 3</td><td>6120</td><td>0.14</td><td>A</td></tr></table> <p>*Note: Capacity as per IRC-106:1990 Guide line for capacity for roads.</p> <p>Conclusion: The carrying capacity of the Bhuj -bhachau HIGHWAY (42) is much higher than the proposed traffic volume. The traffic (to & fro) from the project. The volume/capacity ratio is the same from 0.14 to 0.14 with LOS being “A” to “A” only</p>	Road	V(Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	Bhuj -Bhachau Highway (42)	856	6120	0.14	A	Road	V (Volume in PCU/hr)	C (Capacity in PCU/hr.)	Proposed V/C Ratio	LOS	Bhuj -Bhachau Highway (42)	856 + 3	6120	0.14	A
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Flora and fauna	<p>A total of 20 species listed under Schedule I of the Wildlife Protection Act, 1972 (amended in 2023) were identified including <i>Canis aureus</i>, <i>Equus hemionus</i>, <i>Felis chaus</i>, <i>Gazella bennettii</i>, <i>Hyaena hyaena</i>, <i>Hystrix indica</i>, <i>Urva edwardsii</i>, <i>Viverricula indica</i>, <i>Vulpes bengalensis</i>, <i>Accipiter badius</i>, <i>Gelochelidon nilotica</i>, <i>Haliastur indus</i>, <i>Pavo cristatus</i>, <i>Phoeniconaias minor</i>, <i>Platalea leucorodia</i>, <i>Ptyas mucosa</i>, <i>Python molurus</i>, <i>Naja naja</i>, <i>Saara hardwickii</i>, and <i>Varanus bengalensis</i>. The Wildlife Conservation Plan has been prepared and submitted to the Chief Conservator on 30.05.2025. A budget of INR 22.5 lakh has been earmarked for wildlife conservation over a period of five years.</p>																				

Name of the waste	Source	Quantity (TPA)	Mode of disposal
Biodegradable	Organic Waste	15	Treated in OWC & Utilized as bio manure
Non-Biodegradable	Recyclable Waste (Plastic, paper, wood, glass, etc)	30	Sell to authorized recycler

S.No.	Waste	Source	Proposed (TPA)	Disposal Method
1	Battery Waste	Used Batteries for process	0.3	Sell/dispose to authorized vendor as per Battery management rules 2022 and its amendment till date
2	E-Waste	Computer and other electrical part/ Office electronic items	0.5	Sale to Authorized Vendor as per E-waste (Management) Rules 2022 & amended till date
3	First aid waste	First Aid Room	0.5	Is being given to vendors as per Bio-Medical Waste Management Rules 2016 and its amendment till date

Hazardous Waste Management

ETP35.3

Collection, Storage, Transportation and disposal to TSDF.

S. No.	Name of Waste	Source	Category as per HWM Rules, 2016	Quantity (MTA)	Disposal method
				Existing	
1	Used or Waste Oil	DG set	5.1	3	Sale to authorized recycler as per Rule 9 of HW Rules 2016
2	Air & Oil Filter	Process	5.2	30 Nos. (0.1 MT/Year)	Collection, Storage, Transportation and disposal to TSDF.
3	Oily Clothes & Used Hand Gloves			2.5	
4					
Zinc Ash	Process	6.2	250	Collection, Storage, Transportation and disposal by selling out to registered recyclers.	300
5	Zinc Dross	Process	-		
6	Acidic Re	Process	12.1	0.5	Collection, Storage, T

S. No.	Name of Waste	Source	Category as per HWM Rules, 2016	Quantity (MTA)	Disposal method
				Existing	
	sidue				ransportation and disposal to TSDF
7	Phosphate Sludge	Process	12.5	2	Collection, Storage, Transportation and disposal to TSDF.
9	Discarded Containers/ Barrels/ Liners	Storage of Raw Materials	33.1	200 Nos./ Year	Collection, Storage, Transportation and disposal by send to authorized recyclers.
10	Resin	Water treatment	35.2	0.5	Collection, Storage, Transportation and disposal to TSDF.
11	ETP Sludge	ETP	35.3	1200	Collection, Storage, Transportation and disposal to TSDF.
Budget for Environment Management Capital Cost (INR in Lakh)					
S. No.	Particulars		Existing	Proposed	Total
1	Air management		500	-	-
2	Solid and Hazardous Waste management		106	-	-
3	Wastewater management (ETP + Wastewater treatment)		424	-	-
4	Noise pollution control		500	-	-
5	Greenbelt and Plantation		10	20	30
6	Environment monitoring		372	-	-
7	Occupational Health and Fire & Safety		34	-	-
8	Social Activities		58	-	-
	Total (INR in Lakh)		2004	20	2024

Budget for Environment Management Recurring Cost (INR Lakh/ Year)				
S. No.	Particulars	Existing	Proposed	Total
1	Air management	50	-	-
2	Solid and Hazardous Waste management	10	-	-
3	Wastewater management (ETP + Waste water treatment)	29	-	-
4	Noise pollution control	50	-	-
5	Greenbelt and Plantation	5	10	15
6	Environment monitoring	30	-	-
7	Occupational Health & Safety	10	-	-
Total (INR Lakh/ Year)		184	10	194

S. No.	Particulars	Compliance	Remarks
1.	Land Acquisition Details	Total land area 21.4943 ha is already acquired. The land has been converted from Agricultural to industrial use from the Collector office, Kachchh-Bhuj Vide Certificate No. Jaman-7-N.A.-65-B-Case No. 8/2017-18, No. Jaman-7-N.A.-65-B-Case No.9/2017-18 and No. Jaman-7-N.A.-65-B- Case No. 10/2017-18 dated 11.01.2018	Land documents Enclosed with Annexure no. 14 of EIA Report.
2.	Distance From the nearest boundary of surface water body (flood plain/HFL/ Red line) as per revenue records in case of industrial plant.	Pond near Project Area is at a distance of 0.08 Km in the South direction.	-
3.	Presence of Stream/nallah within the Project Site.	None	-
4.	Validity of Baseline data	Baseline data collected from March 2024 -May 2024 in Summer Season which is valid till May 2027	-
5.	Validity of Public Hearing	Not applicable	-
6.	Validity of CCR	Certified compliance report has been issued by GPCB vide report no. PC/CCA-K	-

		UTCH-1467(4)/GPCB ID-56168/87290 4 dated 01.09.2025 which is valid till 0 1.09.2026.	
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Written submission by the PP:

1. Justification for High PM₁₀ Baseline Concentration:

The elevated PM₁₀ concentration observed during baseline monitoring is primarily attributed to nearby industrial activities, particularly clay mining and crushing operations. Additionally, the Kutch region is characterized by arid climatic conditions, which contribute to higher levels of suspended particulate matter. The project site is also located adjacent to a roadway, and frequent movement of transportation vehicles further adds to fugitive dust emissions, resulting in increased PM₁₀ levels.

2. Lead Concentration in Groundwater:

The reported lead concentration in groundwater was due to a typographical error in the laboratory test report. The correct lead concentration is <0.25 µg/L which is within acceptable limits.

3.3.3. Deliberations by the committee in previous meetings

N/A

3.3.4. Deliberations by the EAC in current meetings

Deliberations by the Committee

1. The instant proposal is for regularization of existing Steel Plant for Steel Tubes & Pipes (Black & Galvanized) & Precision, Tubes (0.072 MTPA), CGI Sheet(Continuous Galvanizing Line) (0.072 MTPA), Fabricated Structure (0.018 MTPA), Steel Tube & Pipes (Black) (Tube Mill- 2.5") (0.048 MTPA) under the provisions of MoEF&CC Notification S.O. 3250(E), dated 20th July, 2022.
2. M/s Goodluck Metalics (Unit of Goodluck India Limited) has established a secondary steel products manufacturing plant with products "steel tubes & pipes (Black & Galvanized) & Precision Tubes, CGI Sheet, Steel Tubes & Pipes (Black) Fabricated Structure based on the CTE granted by Gujarat Pollution control Board vide CTE- 90272 dated 20.01.2018. As per EIA Notification, 2006, Schedule Activity 3(a), condition (ii), "In case of secondary metallurgical processing industrial units, projects involving only furnaces such as induction furnace, electric arc furnace, submerged arc furnace, and cupola with a capacity of more than 30,000 TPA would require environmental clearance." Since the existing project comprised only annealing furnace and galvanising furnace, which were not covered under the above-mentioned provisions of Schedule Activity 3(a), hence, it does not fall under the requirement of environmental clearance earlier. The industry commenced plant operation in 2019 under Consent Order No. AWH-103896, issued vide office order No. PC/CCA-KUTCH-1467/GPCB ID-56168/527220 dated 03/09/2019. The project is presently operating under renewed and amended CTO vide Consent No. AWH-130308 dated 06/11/2023, valid up to 22/09/2028.
3. The company was directed by GPCB in November 2021 to obtain Environmental Clearance in compliance with the Hon'ble NGT order dated 20.10.2020. Accordingly, in pursuance of the EIA Notification S.O. 3250(E) dated 20.07.2022 issued by MoEF&CC and its extension dated 26.07.2023, a ToR application was submitted to the Gujarat-SEAC in November 2022, which was subsequently withdrawn from the PARIVESH portal and the withdrawal was acknowledged by SEIAA-Gujarat in April 2023. Thereafter, the company applied to MoEF&CC and obtained Standard Terms of Reference in July 2023 for a total land area of 30.8271 ha, comprising existing and proposed expansion land. However, as the proposed expansion land could not be acquired, the EIA prepared under the said ToR was not taken forward and the ToR was not further pursued. Subsequently, owing to a change in project configuration, a fresh ToR application was submitted in 2025 for expansion activities proposed within the existing land area of 21.489 ha. Upon Essential Details Sought (EDS) being raised in the 2025 ToR proposal, the company opted to proceed under the regularization route and accordingly, submitted an application for Environmental Clearance in November 2025 strictly in accordance with the ToR

dated 20.07.2023 along with the EIA/EMP, Form and certified compliance report, in accordance with the provisions of the EIA Notification, 2006.

4. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
5. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
6. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
7. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
8. PP submitted that total land is 21.4943 ha. The land is under the possession of company and has been converted from Agricultural to industrial use from the Collector office, Kachchh-Bhuj Vide Certificate No. Jaman-7-N.A.-65-B-Case No. 8/2017-18, No. Jaman-7-N.A.-65-B-Case No.9/2017-18 and No. Jaman-7-N.A.-65-B-Case No. 10/2017-18 dated 11.01.2018.
9. Shikara is at a distance of 1.01 km in West along with other sensitive areas within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
10. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
11. There are ponds (0.8 km and 0.9 km in South) near the project area, Drain near Sikra (0.45 km, WNW), Pond near Project Area (0.71 km, ENE) along with other water bodies within the study area of the project site. The EAC opined that robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
12. The nearest eco-sensitive area to the project is the Rann of Kutch Wildlife Sanctuary, which has a notified Eco-Sensitive Zone (ESZ) as per MoEF&CC Notification dated 29.08.2019. The sanctuary is located at a distance of 7.2 km from the project site, while its ESZ lies at 6.2 km. The distances have been authenticated by the Chief Conservator of Forests, Kutch Forest Circle, Bhuj, through a certified map and letter dated 14.02.2025. The Committee opined that PP shall undertake suitable environmental safeguards to minimise the impact of project activities on Wildlife Sanctuary.
13. Total water requirement (Industrial + Domestic) is 267 KLD which is obtained from GWIL (Gujarat Water Infrastructure Limited). Out of 267 KLD, 147 KLD is fresh water and remaining 120 KLD is treated water from ETP. The EAC deliberated on the water requirement is of the opinion that PP shall secure necessary permission from the Competent Authority in this regard.
14. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and noted that PM_{2.5} and PM₁₀ are reported high. PP reported that the elevated PM₁₀ concentration observed during baseline monitoring is primarily attributed to nearby industrial activities, particularly clay mining and crushing operations. Additionally, the Kutch region is characterized by arid climatic conditions, which contribute to higher levels of suspended particulate matter. The project site is also located adjacent to a roadway, and frequent movement of transportation vehicles further adds to fugitive dust emissions, resulting in increased PM₁₀ levels. The EAC opined that PP shall undertake

stringent measures to minimise the levels of PM₁₀ and PM_{2.5}.

15. It is reported that a total of 20 species listed under Schedule I of the Wildlife Protection Act, 1972 (amended in 2023) were identified including *Canis aureus*, *Equus hemionus*, *Felis chaus*, *Gazella bennettii*, *Hyaena hyaena*, *Hystrix indica*, *Urva edwardsii*, *Viverricula indica*, *Vulpes bengalensis*, *Accipiter badius*, *Gelochelidon nilotica*, *Haliastur indus*, *Pavo cristatus*, *Phoeniconaias minor*, *Platalea leucorodia*, *Ptyas mucosa*, *Python molurus*, *Naja naja*, *Saara hardwickii*, and *Varanus bengalensis*. The Wildlife Conservation Plan has been prepared and submitted to the Chief Conservator on 30.05.2025. A budget of INR 22.5 lakh has been earmarked for wildlife conservation over a period of five years. The EAC opined that the recommendations of the approved plan shall be strictly implemented in consultation with the State Forest Department.
16. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LIFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.
17. The PP has submitted that the green belt area of 19340 sqm. has been developed with 6044 no. of trees which is about 9.0 % of plot area and proposed green belt area is 23649 sqm. with 18250 no. of trees which is 11% of plot area. Thus, a total greenbelt area of 42989 sqm with 24294 no. of trees i.e. 20% of the plot area has been proposed. **The EAC deliberated on the greenbelt action plan and is of the opinion that greenbelt needs to be maintained as 25%, as the unit is classified as RED Category as per CPCB criteria.** Accordingly, 25% Greenbelt shall be completed in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025.
18. The EAC deliberated on the certified compliance report of SPCB and found it satisfactory.
19. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
20. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.
21. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
22. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
23. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

3.3.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

3.3.6. Details of Environment Conditions

3.3.6.1. Specific

Specific	
1.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
2.	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
3.	The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
4.	Shikara is at a distance of 1.01 km in West along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
5.	Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities
6.	There are ponds (0.8 km and 0.9 km in South) near the project area, Drain near Sikra (0.45 km, WNW), Pond near Project Area (0.71 km, ENE) along with other water bodies within the study area of the project site. Robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
7.	PP shall implement suitable environmental safeguards, to ensure that project activities do not adversely impact the Rann of Kutch Wildlife Sanctuary and its notified Eco-Sensitive Zone.
8.	Total water requirement (Industrial + Domestic) is 267 KLD which is obtained from GWIL (Gujarat Water Infrastructure Limited). Out of 267 KLD, 147 KLD is fresh water and remaining 120 KLD is treated water from ETP. PP shall secure necessary permission from the Competent Authority in this regard.
9.	PP shall undertake stringent measures to minimise the levels of PM10 and PM2.5.
10.	Green Belt shall be developed and maintained in the project area in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
11.	The PP shall undertake plantation, in compliance to MoEF&CC OM dated 24.07.2024, in the earmarked area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at (https://merilife.nic.in).
1	All the commitments made towards socio-economic development of the nearby villages shall be

2.	satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented. The action plan shall also cover activities related to (i) promotion of environmental education and awareness (including green skills), and (ii) sub-plan to address the vulnerable sections (such as the elderly, children, pregnant women, persons with disabilities, and the terminally ill). An institutional mechanism shall be developed for monitoring the implementation of the commitments made, which shall also manage and address public grievances. The progress of implementation of PH Action plan and grievance redressal shall be submitted regularly to the Regional Office of MoEF&CC.
1 3.	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village in consultation with the State Administration.
1 4.	PP shall implement the skill development programs, in alignment with relevant Government initiatives/programmes (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC.
1 5.	PP shall Install CO sensors with alarms at strategic locations in the Plant.
1 6.	PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.
1 7.	PP shall establish a dedicated in-house Research & Development (R&D) cell aimed at identifying, evaluating, and implementing emerging clean technologies. The focus of this cell will be on enhancing process efficiency, minimizing waste generation, and promoting circular economy practices within the plant operations. The effectiveness of the R&D initiatives shall be reviewed periodically, and outcomes contributing to sustainability shall be documented and reported
1 8.	The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded, compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.
1 9.	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

3.3.6.2. Standard

3(a)	Metallurgical Industries (ferrous and non ferrous)
Statutory compliance	

1.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
2.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
Air Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area.
3.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
4.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
5.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
6.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
7.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
8.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
9.	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
10.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
11.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
12.	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.

1 3.	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
1 4.	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
1 5.	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
1 6.	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm ³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
1 7.	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
Water Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
3.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
4.	Water meters shall be provided at the inlet to all unit processes in the plants.
5.	The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
6.	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
7.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
8.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

Water Quality Monitoring and Preservation in case of Rolling Mills	
1.	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time. (in case of rolling mills)
Noise Monitoring and Prevention	
1.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
2.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
Energy Conservation Measures	
1.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
2.	Provide LED lights in their offices and residential areas.
Waste Management	
1.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
2.	Kitchen waste shall be composted or converted to biogas for further use.
3.	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
4.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
Green Belt	
1.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
2.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
3.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from

	exposed soil surface.
Public Hearing and Human Health Issues	
1.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
3.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
4.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
Environment Management	
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
2.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
3.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.
Miscellaneous	
1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
2.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

4.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
5.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
6.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
7.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
8.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
9.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
10.	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
11.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
12.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
13.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
14.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
16.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
17.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

3.4. Agenda Item No 4:

3.4.1. Details of the proposal

Brownfield project in which addition of SAF (3.5 MVA x 2 nos.) to produce Ferro Alloys (SiMn) 11,000 TPA and/or FeMn 17,000 TPA and/or FeSi 7,000 TPA and/or Pig Iron 27,000 TPA in place of existing Cast Iron 29,700 TPA and change in fuel of existing Captive Power Plant 7.5 MW (Coal and Dolochar fuel proposed instead of existing Biomass) at Village - Thakurtola, Tehsil & District - Rajnandgaon (C.G.) Pin Code - 491 441 by M/s. Agrawal Structure Mills Pvt Limited (Power Division). by AGRAWAL STRUCTURE MILLS PVT LIMITED located at RAJNANDGAON, CHHATTISGARH			
Proposal For		Expansion EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
IA/CG/IND1/556562/2025	IA-J-11011/26/2025-IA-II (Ind-I)	20/12/2025	Metallurgical Industries (ferrous and non ferrous) Primary Metallurgical Industry - All Projects (3(a))

3.4.2. Project Salient Features

[Proposal no.: IA/CG/IND1/556562/2025; File No. IA-J-11011/26/2025-IA.II (Ind-I)]
[Consultant: Anacon Laboratories Pvt. Ltd; Valid upto: 29.09.2026]

Date of application	Consideration	Details	Date of accord	ToR Validity
S l.	Details of EDS Sought by Ministry		Reply by M/s. Agrawal Structure Mills Pvt. Ltd.	
EDS generated for our Proposal No. IA/CG/IND1/556562/2025 on dated 10.11.2025 and Reply submitted on Dated: 20.12.2025				
1	EDS Point 1: The proposal was examined, and it is noted that the uploaded CCR do not mention the compliance of CTO conditions in respect of the Bio-mass based power plant and the Cast Iron Plant. PP may upload a CCR in compliance with OM dated 08-06-2022.		Reply: The company has obtained the revised CCR from Chhattisgarh Environment Conservation Board (CECB), wherein compliance status of all applicable CTO conditions pertaining to the Biomass-based Power Plant and the CTE conditions of Cast Iron Plant has been duly incorporated. The copy submitted. This is submitted for information and record.	
S l.	Particulars	Details		Remarks
1.	Total land	Total land – 5.280 Ha.		The land use of entire area is industrial.

S l.	Particulars	Details	Remarks																								
			No additional land proposed to be acquired.																								
2.	Land acquisition details as per MoE F&CC O. M. dated 7/10/2014	The total project area for expansion project will be 5.280 Ha. covering Khasra Nos. 376, 377/1, 377/2, 383/1, 384, 385/2, and 385/3.	The land is already in possession, designated for industrial use, and no additional land is required.																								
3.	Existence of habitat & involvement of R&R, if any.	Thakurtola - 0.62 km/NNE & Torankata - 0.84 km/SSW The proposed expansion project does not necessitate any R&R measures.	R&R - Not applicable.																								
4.	Latitude and Longitude of all corners of the project site.	<table><tr><th>S. No.</th><th>Latitude</th><th>Longitude</th></tr><tr><td>BP1</td><td>21° 6'26.93"N</td><td>81° 6'41.48"E</td></tr><tr><td>BP2</td><td>21° 6'26.59"N</td><td>81° 6'55.99"E</td></tr><tr><td>BP3</td><td>21° 6'25.04"N</td><td>81° 6'55.44"E</td></tr><tr><td>BP4</td><td>21° 6'25.42"N</td><td>81° 6'50.48"E</td></tr><tr><td>BP5</td><td>21° 6'20.19"N</td><td>81° 6'49.27"E</td></tr><tr><td>BP6</td><td>21° 6'23.06"N</td><td>81° 6'43.84"E</td></tr><tr><td>BP7</td><td>21° 6'23.95"N</td><td>81° 6'39.27"E</td></tr></table>	S. No.	Latitude	Longitude	BP1	21° 6'26.93"N	81° 6'41.48"E	BP2	21° 6'26.59"N	81° 6'55.99"E	BP3	21° 6'25.04"N	81° 6'55.44"E	BP4	21° 6'25.42"N	81° 6'50.48"E	BP5	21° 6'20.19"N	81° 6'49.27"E	BP6	21° 6'23.06"N	81° 6'43.84"E	BP7	21° 6'23.95"N	81° 6'39.27"E	Village- Thakurtola, Tahsil and District- Rajnandgaon (Chhattisgarh)
S. No.	Latitude	Longitude																									
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BP6	21° 6'23.06"N	81° 6'43.84"E																									
BP7	21° 6'23.95"N	81° 6'39.27"E																									
5.	Elevation of the project site	Min 315m – Max 323m above mean sea level.	Project site and its terrain consist of flat to moderately steep slopes.																								
6.	Involvement of Forest land if any.	No forest land is involved in the project area.	No forest land is involved in the project area.																								
7.	Water body (Rivers, Lakes, Pond, Nala, Natural)	<p>Project Site: NA Study area: River, Lake, Pond, Nala</p> <table><tr><th></th><th>Distance (KM)</th><th>Direction</th></tr><tr><td></td><td>0.01</td><td>S</td></tr><tr><td></td><td>1.67</td><td>SW</td></tr><tr><td></td><td>4.82</td><td>SE</td></tr></table>		Distance (KM)	Direction		0.01	S		1.67	SW		4.82	SE	No natural water body is involved in the proposed plant site.												
	Distance (KM)	Direction																									
	0.01	S																									
	1.67	SW																									
	4.82	SE																									

S l.	Particulars	Details			Remarks	
	Drainage, Canal etc.) exists within the project site as well as study area		1.87	SE		
			1.33	SSE		
			6.75	SE		
			4.46	SE		
			5.95	NW		
			8.27	WSW		
			8.58	WSW		
			8.48	WSW		
			7.68	W		
8.	Existence of ESZ/ESA / national park/ wildlife sanctuary/ biosphere reserve/tiger reserve/ elephant reserve etc. if any within the study area	Study area Name of the ESZ/ESA: Nil Status of Notification: Nil Distance of project from ESZ/ESA: Nil. Authenticated map of ESZ projecting distance of ESZ from project site: Not applicable since no ESZ in study area Status of NBWL approval: Not applicable List of Reserved and protected forests: Nil			No ESZ/ESA/national park/wildlife sanctuary /biosphere reserve/ tiger reserve/ elephant reserve etc. present in 10 km radius area.	
Sr. No.	Particulars	Granted To	Document No.	Date	Validity	Implementation Status
1	Cast Iron - 29,700 TPA (CTE cum CTO)	M/s SKA Power and Cast Alloys Pvt. Ltd.	Vide letter no. 137/RO/TS/CECB/ 2023	25/04/2023	One year from the first date of month of commissioning of the plant	Constructed but not operated yet
2	Biomass Based Power Plant – (7.5 MW)	M/s Agrawal Structure Mills Private Limited	Vide letter no. 4740 /TS/CECB/ 2023	13/09/2023	30/04/2024	Presently the unit is non- operational. Intimation already given to CECB.
Note**: As per Letter received from Regional Office, CECB, Bhilai vide letter number No. 5520/Kshetra Kary/CGPSM/Bhilai/2024 dtd. 03/01/2025 name changes from M/s. SKA Power & Cast Alloys Private Limited to M/s. Agrawal Structure Mills Private Limited.						

S r. N o.	Process plant	Existing Capacity	Proposed configuration of the plant	Product Name	Capacity (in TPA)
1.	Submerged Electric Arc Furnace	(Cast Iron - 29,700 TPA)	Electrically operated Sub-Merged Arc Furnace 3.5 MVA x 2 Nos.	Ferro Alloys (SiMn)	11,000
				And/or	
				Ferro Alloys (FeMn)	17,000
				And/or	
				Ferro Alloys (FeSi)	7,000
				And/or	
				Pig Iron	21,000
2.	Captive Power Plant (Boiler and TG based)	Biomass Based Power Plant (7.5 MW)	Captive power 7.5 MW (32 TPH Boiler)	Coal + Dolochar Based Power Plant	Coal + Dolochar Based Power Plant (7.5 MW)

For Ferro Alloys Plant (SiMn, FeMn, FeSi)

(a) For Silico Manganese (SAF Plant)

S. N o.	Raw Material	Consumption (in TPA)	Source	Distance (In KM)	Mode of Transportation
1	Manganese Ore	18,600	Mines at Odisha and Madhya Pradesh and Vidarbha region	~ 500 Kms.	By Rail & Road (through covered trucks)
2	FeMn Slag	11,570	In house generation	---	---
3	LAM Coke	6,200	Open Market	~ 500 Kms.	By Road (through covered trucks)
4	Dolomite	2,820	Mines in Bilaspur	~ 300 Kms.	By Road (through covered trucks)
5	Electrode paste	240	Local Market	~ 100 Kms.	By Road (through covered trucks)

S. N o.	Raw Material	Consump tion (in TPA)	Source	Distance (In KM)	Mode of Transp ortation
6	Quartz	3,000	Mines in Raigarh	~ 300 Kms.	By Road (throug h covered truck s)
7	Bag filter dust	76	Own generation	---	---

(b) For Ferro Manganese (SAF Plant)

S. N o.	Raw Material	Cons ump tion (in TP A)	Source	Distance	Mode of Transp ortation
1.	Manganese Ore	50340	Mines at Orissa and Madhya Pradesh and Vidarbha region	~ 500 Kms	By Rail & Road (t hrough covered t rucks)
2.	Coal & Coke	13500	Open Market	~ 500 Kms	By Road (throug h covered truck s)
3.	Dolomite	4500	Mines in Bilaspur	~ 300 Kms	
4.	Carbon Paste	540	Local Market	~ 100 Kms	
5.	Iron	1800	NMDC Iron Ore Mines	~ 500 Kms	

(c) For Ferro Silicon (SAF Plant)

S. No.	Raw Material	Consump tion (in TPA)	Source	Mode of Transportation
1.	Quartz	10200	Mines in Raigarh	By Rail & Road (through covered t rucks)
2.	Coke/Charcoal	672	Open Market	
3.	MS Scrap/Mill Scale	2640	Local Industries	
4.	Electrode Paste	360	Local Market	

(d) For Pig Iron (SAF Plant)

S. N o.	Raw Material	Consump tion (in TPA)	Source	Distance	Mode of Transpo rtation
1	Iron Ore	22800	NMDC Iron Ore Mines	500 KMs	By Rail & Road (t hrough covered tr ucks)

S. N o.	Raw Material	Consumption (in TPA)	Source	Distance	Mode of Transportation
2	Mill Scale	9690	Chhattisgarh	~ 200 Kms.	By road (through covered trucks)
3	Iron Ore Fines	9500	NMDC Iron Ore Mines	~ 500 Kms.	By road (through covered trucks)
4	Quartz	5700	Mines in Raigarh	~ 300 Kms.	By Rail & Road (through covered trucks)
5	Dolomite/Limestone	6650	Mines in Bilaspur	~ 300 Kms.	By road (through covered trucks)
6	Coke/Coal/Charcoal	34520	Open Market	~ 500 Kms.	By road (through covered trucks)
7	Electrode Paste	1280	Local Market	~ 100 Kms.	By road (through covered trucks)

For Captive Power Plant (FBC) - 7.5 MW

S. N o.	Raw Material	Consumption (in TPA)	Source	Distance	Mode of Transportation
1.	Indian Coal (80%)	62,700 TPA	Chhattisgarh	~ 300 Kms.	Internally available.
2.	Dolochar (20%)	15,840 TPA	Chhattisgarh	~ 100 Kms.	By Road through covered vehicles
Period		Winter Season (1 st December 2024 to 28 th February 2025)			
AAQ parameters at 8 Locations (min. and max)		$\text{PM}_{10} = 57.4 - 88.8 \mu\text{g}/\text{m}^3$; $\text{PM}_{2.5} = 18.3 - 37.6 \mu\text{g}/\text{m}^3$ $\text{SO}_2 = 7.7 - 20.1 \mu\text{g}/\text{m}^3$; $\text{NO}_2 = 13.7 - 28.5 \mu\text{g}/\text{m}^3$ $\text{CO} = 257 - 693 \mu\text{g}/\text{m}^3$			
Incremental GLC level		$\text{PM}_{10} = 2.75 \mu\text{g}/\text{m}^3$ (Level at 1000 m in West Direction) $\text{PM}_{2.5} = 1.12 \mu\text{g}/\text{m}^3$ (Level at 1000 m in West Direction) $\text{SO}_2 = 7.18 \mu\text{g}/\text{m}^3$ (Level at 1000 m in West Direction) $\text{NO}_x = 7.18 \mu\text{g}/\text{m}^3$ (Level at 1000 m in West Direction)			
Ground water quality at 8 locations		pH: 7.04 to 8.2 Total hardness: 118.35 to 174 mg/l. TDS: 285 to 351 mg/l. Chloride: 63.46 to 112.16 mg/l Nitrate: 5.09 to 8.62 mg/l Sulphate: 19.4 to 51.86 mg/l Iron: 0.13 to 0.66 mg/l Heavy metals: BDL			

	Fluoride: 0.3 to 0.75 mg/l.																																				
Surface water quality at 5 locations	pH: 7.56 – 8.12 Chloride: 71.28 – 104.25 mg/l Sulphate: 27.44 – 39.32 mg/l. DO: 5.8 – 6.2 mg/l. PO ₄ : 0.21 to 0.31 mg/l. COD: 11.72 – 17.95 mg/l BOD: 2.31 – 3.12 mg/l. TDS: 301 – 368 mg/l. Total hardness: 147.67 – 188.86 mg/l. as CaCO ₃																																				
Noise levels at 8 locations. Leq. (Day and Night)	Noise levels at every station were within CPCB standards. · Residential Area – 51.6 to 53.1 dBA for daytime and 41.8 to 43.7 dBA for nighttime. · Commercial Area – 54.9 to 56.1 dBA for daytime and 44.5 to 45.6 dBA for night time. · Silence Zone – 43.7 to 45.2 dBA for daytime and 35.4 to 36.8 dBA for nighttime. · Industrial Area – 58.7 dBA for daytime and 49.2 dBA for nighttime.																																				
Traffic assessment study findings	<div><div><div>Traffic study has been conducted at Approach Road and NH-53 which is approximately 1 km in north direction from the site. Transportation of raw materials, fuel & furnished product will be done by road and Bulk Material by the rail.</div><div>· Existing PCU is 234 PCU/day on Approach Road and 20016 PCU/day on NH-53 which is approximately 1 km in north direction from the site. Existing level of service (LOS) for the approach road and NH-53 is: A & C respectively.</div></div><table><thead><tr><th>Road</th><th>Existing PCU's- State/ National Highway</th><th>V (Volume In PCU / Day)</th><th>C (Capacity In PCU / Day)</th><th>Existing V/C Ratio</th><th>LOS</th></tr></thead><tbody><tr><td>Approach Road</td><td>234</td><td>234</td><td>6000</td><td>0.0390</td><td>A</td></tr><tr><td>NH-53</td><td>20016</td><td>20016</td><td>35000</td><td>0.5719</td><td>C</td></tr></tbody></table><div><div>· PCU load after proposed project will be 234 (Existing) + 422 (Additional) = 656 PCU/day on approach Road and 20016 (Existing) + 422 (Additional) = 20438 PCU/day on NH-53 which is approximately 1 km in north direction from the site and level of service (LOS) approach road and NH-53 is: A & C respectively.</div><table><thead><tr><th>Road</th><th>Increased PCU's- State/ National Highway</th><th>V (Volume In PCU/ Day)</th><th>C (Capacity In PCU/ Day)</th><th>Modified V/C Ratio</th><th>LOS</th></tr></thead><tbody><tr><td>Approach Road-</td><td>234 + 422 = 656</td><td>656</td><td>6000</td><td>0.1093</td><td>A</td></tr><tr><td>NH-53</td><td>20016 + 422 = 20438</td><td>20438</td><td>35000</td><td>0.5839</td><td>C</td></tr></tbody></table><div><div>*Note: Capacity as per IRC: 64-1990) <i>Guide line for capacity for roads.</i></div><div>Conclusion: It is observed that, considering the trucks used for raw material and finished products transportation from approach road and NH-53 Road, the level of service on will be A (0.0 to 0.2) and C (0.4 -0.6), respectively.</div></div></div></div>	Road	Existing PCU's- State/ National Highway	V (Volume In PCU / Day)	C (Capacity In PCU / Day)	Existing V/C Ratio	LOS	Approach Road	234	234	6000	0.0390	A	NH-53	20016	20016	35000	0.5719	C	Road	Increased PCU's- State/ National Highway	V (Volume In PCU/ Day)	C (Capacity In PCU/ Day)	Modified V/C Ratio	LOS	Approach Road-	234 + 422 = 656	656	6000	0.1093	A	NH-53	20016 + 422 = 20438	20438	35000	0.5839	C
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Flora and fauna

Flora

According to IUCN Status report 2024-2 out of total 109 plant species identified within study area among the observed species *Tectona grandis* Linn. is endangered (EN) while *Aegle marmelos* (L.) Corrêa is near threatened (NT) as per IUCN RED list. The other identified plant species in the study area belongs to least concern (LC), data deficient (DD) and not evaluated (NE), as per IUCN status report 2024-2.

Fauna

Among the reported animals, the categorization of species as per IUCN is as follows:

Mammals: 9 species are observed in the study area which are Least Concern as per IUCN.

Reptiles: *Python molurus* - Indian Python (Near Threatened), *Varanus bengalensis* - Bengal Monitor Lizard (Near Threatened)

Avifauna: All species are Least Concern as per IUCN.

Wildlife protection (Amendment) Act 2022 and as amended.

Among mammals: Jackal (*Canis aureus*), Indian fox (*Vulpes bengalensis*), Indian Wild boar (*Sus scrofa cristatus*), Common Mongoose (*Herpestes edwardsi*), are protected in Schedule-I. whereas, Common Langur (*Semnopithecus entellus*), protected in Schedule-II, White Palm squirrel (*Funambulus pinnati*), and Black-naped hare (*Lepus nigricollis*) does not given protection under Schedules of Wild Life Protection Amendment Act 2022.

Among the Herpetofauna: Bengal Monitor Lizard (*Varanus bengalensis*), Indian Cobra (*Naja naja*), Indian Python (*Python molurus*) and Common Rat Snake (*Ptyas mucosa*) were provided protection as per Schedule-I; While Common Indian Krait (*Bungarus caeruleus*), Indian Toad (*Bufo parietalis*) were provided as per Schedule - II of Wildlife protection (Amendment) Act 2022 and as amended.

Among the Avifauna: All of the Avifauna were observed in the study area included in Schedule-II as per wildlife protection (Amendment) Act 2022.

A Wildlife Conservation and Management Plan is prepared and provided is submitted at PCCF(WL), Raipur office on dt. 15.10.2025.

Present Status: The WLCP submitted at PCCF(WL), Raipur office on dt. 15.10.2025. The approval of conservation plan is under process.

S. No.	Waste / By product	Quantity(TPA)	Proposed method of disposal
1.	Slag from SiMn	11000	Will be utilized in road construction
2.	Slag from FeMn	14380	Will be used in manufacture of Silico manganese as it contains high MnO ₂ .
3.	Slag from FeSi	750	will be given to cast iron foundries
4.	Slag from Pig Iron	24700	Used for filling of low-lying area/land filling/ construction purpose/ sell to Cement plant.
5.	Bag Filter dust	360	Used in SiMn production (SAF) / Sent to Cement plants

S. No.	Waste / By product	Quantity(TPA)	Proposed method of disposal
6.	Fly Ash/Bottom ash	40080	Sold out to bricks manufactures
7.	Bed Material	800	Used for filling of low-lying area/land filling/ construction purpose/ sell to Cement plant
Type of Hazardous Waste	H.W Category /Rule	Quantity	Disposal
Used/Spent Oil	5.1(as per HWM Schedule I)	1.3 KLA	Will be given to authorized recycler
Empty Barrels/ Containers/ liners contaminated with hazardous chemicals/ wastes	Covered under The Batteries (Management and Handling) Rules, 2001	7 Nos. (0.1 TPA)	Total 0.1 TPA the lead acid battery or dry battery will be given to authorized recycler having authorization from competent Authority.
E-waste generation	E-waste Management rule 2022	0.3 TPA Computers, laptops, Monitors, printers, and other electronic appliances	Total 0.3 TPA Shall be disposed through authorized recyclers as per e-waste Management rule 2022
Details of advertisement given	<div> <div>Advertisement regarding Public hearing Schedule dated 08.08.2025</div> <div> <div>· The Indian Express New Delhi - Date- 02.07.2025</div> <div>· Haribhumi, Raipur Date - 14.12.2022</div> <div>· Haribhumi, Bilaspur Date - 14.12.2022</div> </div> </div>		
Date of public consultation	08.08.2025 at 11:00 AM		
Venue	Venue - at vacant land of Proposed Project Site, Khasra No. 385/2, and 385/3 Village - Thakurtola, Tehsil & District - Rajnandgaon, Chhattisgarh.		
Presiding	Additional Collector, District Rajnandgaon		

Officer	
Major issues raised	<ul style="list-style-type: none"> · Road should be repaired · Crops should not be damaged due to pollution. · Industrial training program. · Encroachment of the Govt. Nala. · Concern about pollution. · Waste water will not be generated from the company and Zero liquid discharge will be followed. · Waste water should not be discharge out of Plant Premises. · Employment should be provided to local villagers according to their qualifications. · All environmental policies and regulations must be strictly followed by the company · Scarcity of Drinking water. · Copy of action plan of CER Budget will be provided in nearby village panchayats <p>All suggestions/observation/objections raised by locals during PH are point wise complied and provided in EIA report.</p>

Action Plan as per OM dated 30.09.2020

S. No.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R. s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2020 to 31.12.2020)	(01.01.2021 to 31.12.2021)	(01.01.2022 to 31.12.2022)	
1.	Health & A	Location:	Organize	Organize	Organize	12

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	Warren's Camps.	Thakurkol and nearby villages. Activity: Health	Minimum of 3 health camps annually	Minimum of 3 health camps annually	Minimum of 3 health camps annually	

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (I n L a k h s)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Pl aces	(0 1. 0 1. 2 0 2 6 to 3 1. 1 2. 2 0 2 2 6)	(0 1. 0 1. 2 0 2 7 to 3 1. 1 2. 2 0 2 7)	(0 1. 0 1. 2 0 2 8 to 3 1. 1 2. 2 0 2 8)	
	h camps, workshops, awareness programs.					

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
2.	Rural infrastructure, such as the repair of village road	Work: Contribution in Repairing of Thakurtol		We will start work from January, 2023 and completion of		10

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2027)	(01.01.2028 to 31.12.2028)	
	s. a vil la ge ro a d (P at ch w or k) a p p r o x. 0. 5 K M			w or k by De ce m be r, 20 2 7.		

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
3.	Industrial Training programme for unemployed	Location: Thakurda and nearby villages.	Work start from January 2026	yearly	yearly	6

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
	Name of the Activity	Places	1 st Year	2 nd Year	3 rd Year	
			(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	vil la ge rs.					
4.	Basic Facilities in primary school Tahakurt	Location: Primary school Tahakurt		We will start Work at Tahakurt School and		12

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
	Name of the Activity	Pl aces	1 st Year	2 nd Year	3 rd Year	
			(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	Installation of solar street light, Electrification	and nearby area. Work: 1. Solar Street Light in sc		near by area from January, 2023 and will complete within		

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	Online and installing Submersible pump in	school and In front of Thakurtila Primary School		1 Year		

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	g, Water cooler, CCTV Camera, Plan tation in sc	l. 3. In stall in g S ub m er si bl e P u m p at T ha ku rt ol				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (I n L a k h s)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Pl aces	(0 1. 0 1. 2 0 2 6 to 3 1. 1 2. 2 0 2 6)	(0 1. 0 1. 2 0 2 7 to 3 1. 1 2. 2 0 2 7)	(0 1. 0 1. 2 0 2 8 to 3 1. 1 2. 2 0 2 8)	
	h o o l p r e m i s e s a n d n e a r P r i m a r y S c h o o l T h a k u r t o l	a P r i m a r y S c h o o l B o r i n g. 4. W a t e r C o o l e r i n T h a				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (I n L a k h s)
	Name of the Activity	Pl aces	1 st Year	2 nd Year	3 rd Year	
			(0 1. 0 1. 2 0 2 6 to 3 1. 1 2. 2 0 2 2 6)	(0 1. 0 1. 2 0 2 7 to 3 1. 1 2. 2 0 2 7)	(0 1. 0 1. 2 0 2 8 to 3 1. 1 2. 2 0 2 8)	
	a.	ku rt ol a Pr i m ar y S ch o ol. 5. C C T V ca m er a i n S				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
	Name of the Activity	Pl aces	1 st Year	2 nd Year	3 rd Year	
			(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
5.	Rur	L o		W e		16

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	Infrastructure like CCTV Camera, Provision of	Location: Thakurtola Village (Each Chowk) Work:		will start Work in Thakurtola village from March, 2023 and will		

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	Solar street light and installing Submersible pump	1. CCTVCamera 2. Solar Street Light 3. Electrification		Complete within 1 Year		

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
	Name of the Activity	Pl aces	1 st Year	2 nd Year	3 rd Year	
			(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	Implementation of T h a k u r t o l a v i l a g e a n d r e q u i r e d p l a c e	ca t i o n 4. I n s t a l l i n g S u b m e r s i b l e P u m p.				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	es.					
6.	Rainwater Harvesting system.	Location & Work: Rainwater Harvesting		We will start work in nearby villages from January,		8

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2027)	(01.01.2028 to 31.12.2028)	
		structure in Nearby villages		2027 and will complete within 1 Year		
7.	Help to social	Location:	Yearly	Yearly	Yearly	6

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (I n L a k h s)
	Name of the Activity	Pl aces	1 st Year	2 nd Year	3 rd Year	
			(01.01.2026 to 31.12.2026)	(01.01.2027 to 31.12.2027)	(01.01.2028 to 31.12.2028)	
	welfare program.	Nearby villages Activity: We Will Provide dona				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (I n L a k h s)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Pl aces	(0 1. 0 1. 2 0 2 6 to 3 1. 1 2. 2 0 2 6)	(0 1. 0 1. 2 0 2 7 to 3 1. 1 2. 2 0 2 7)	(0 1. 0 1. 2 0 2 8 to 3 1. 1 2. 2 0 2 8)	
		tion and grants for the social welfare program				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
8.	Planation in Government Land & Private Land	Location: Thakur and Nearby villages	We will start the work immediately	We will maintain a minimum survival rate of 80% for the	We will become completed at Thakur to land	20

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	in Tahakurtola, and nearby villages.	ded by Local Authority/ Panchayat & any Pu	ding the construction work at site which is lik	plantation.	ear by villages by August, 2028	

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	Public if agree. Land Size: Approx. 0.2 Acre (a		ely to start from June 2026.			

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (I n L a k h s)
	Name of the Activity	Pl aces	1 st Year	2 nd Year	3 rd Year	
			(0 1. 0 1. 2 0 2 6 to 3 1. 1 2. 2 0 2 2 6)	(0 1. 0 1. 2 0 2 7 to 3 1. 1 2. 2 0 2 7)	(0 1. 0 1. 2 0 2 8 to 3 1. 1 2. 2 0 2 8)	
		sp er avail a bil it y) F ac ili ti e s: A p p oi nt m e nt of Ex				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
	Name of the Activity	Pl aces	1 st Year	2 nd Year	3 rd Year	
			(01.01.2026 to 31.12.2026)	(01.01.2027 to 31.12.2027)	(01.01.2028 to 31.12.2028)	
		per ien c e P er so n fo r Pl an ta ti o n in fl at la n d and				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (I n L a k h s)
	Name of the Activity	Pl aces	1 st Y e ar	2 nd Y e ar	3 rd Y e ar	
			(0 1. 0 1. 2 0 2 6 to 3 1. 1 2. 2 0 2 2 6)	(0 1. 0 1. 2 0 2 7 to 3 1. 1 2. 2 0 2 7)	(0 1. 0 1. 2 0 2 8 to 3 1. 1 2. 2 0 2 8)	
		Red yellow and black soil areas provided by				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (I n L a k h s)
	Name of the Activity	Pl aces	1 st Y e ar	2 nd Y e ar	3 rd Y e ar	
			(0 1. 0 1. 2 0 2 6 to 3 1. 1 2. 2 0 2 2 6)	(0 1. 0 1. 2 0 2 7 to 3 1. 1 2. 2 0 2 7)	(0 1. 0 1. 2 0 2 8 to 3 1. 1 2. 2 0 2 8)	
		Local forest authority. Activity: Monthly Check				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2026 to 31.12.2026)	(01.01.2027 to 31.12.2027)	(01.01.2028 to 31.12.2028)	
		Planting of trees and fencing availability by				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (I n L a k h s)
	Name of the Activity	Pl aces	1 st Y e ar	2 nd Y e ar	3 rd Y e ar	
			(0 1. 0 1. 2 0 2 6 t o 3 1. 1 2. 2 0 2 2 6)	(0 1. 0 1. 2 0 2 7 t o 3 1. 1 2. 2 0 2 7)	(0 1. 0 1. 2 0 2 8 t o 3 1. 1 2. 2 0 2 8)	
		Ex p e r i e n c e d P e r s o n t h r o u g h P l a n t m a n a g e m				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2026 to 31.12.2026)	(01.01.2027 to 31.12.2027)	(01.01.2028 to 31.12.2028)	
		ent.				
9.	Farmer's Training to improve crop prod	Location: Village Thakurda at Comm		We will start the Work from August, 2027	The completion of Work by June, 20	10

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2026 to 31.12.2026)	(01.01.2027 to 31.12.2027)	(01.01.2028 to 31.12.2028)	
	Activity	Unit Land Provided by Village Panchayat / Lo			28	

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2026 to 31.12.2026)	(01.01.2027 to 31.12.2027)	(01.01.2028 to 31.12.2028)	
	Local Authority. Facilities: Agriculture and Horti					

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (I n L a k h s)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Pl aces	(0 1. 0 1. 2 0 2 6 to 3 1. 1 2. 2 0 2 2 6)	(0 1. 0 1. 2 0 2 7 to 3 1. 1 2. 2 0 2 7)	(0 1. 0 1. 2 0 2 8 to 3 1. 1 2. 2 0 2 8)	
		cu lt ur e Ex p er t 1 P er so n fr o m L o ca l v ill a g e. A				

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2026 to 31.12.2026)	(01.01.2027 to 31.12.2027)	(01.01.2028 to 31.12.2028)	
	Rapid Soil testing facility / kit will be provided					

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	Related to the Beneficial Books on Crop Agr					

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
	Name of the Activity	Pl aces	1 st Year	2 nd Year	3 rd Year	
			(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	onom y and Horticulture and Dairy et c. in Hindi.					

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (I n L a k h s)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Pl aces	(0 1. 0 1. 2 0 2 6 to 3 1. 1 2. 2 0 2 2 6)	(0 1. 0 1. 2 0 2 7 to 3 1. 1 2. 2 0 2 7)	(0 1. 0 1. 2 0 2 8 to 3 1. 1 2. 2 0 2 8)	
	Activity: Half Yearly Soil Sampling and anal					

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
	Name of the Activity	Pl aces	1 st Year	2 nd Year	3 rd Year	
			(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	ys is and awareness to farmers for better sale					

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	ction of crops. Training for efficient crop man					

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	agreement. Awareness for "Jaivik and Sustainable					

S. N o.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			R s. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2022 to 31.12.2022)	(01.01.2023 to 31.12.2023)	(01.01.2024 to 31.12.2024)	
	able Agriculture					
Grand total CER Expenses:						100 Lakhs
(Rs. One hundred Lakhs only)						

S l.	Particulars	Qty. in Nos.	Existing	Propose d additio n	Total cos t after ex pansion	Operation & Mai ntenance cost
Plant and Machinery proposed for EMP						
1	ESP cost of Power Plant	1	30		30	0.4
2	Cost of Bag Filters	1	-	20	20	0.26
Building and Civil works used for EMP						
3	Cost of Chimney for Power Plant	1	8		8	0.2
4	Cost of Chimney for Ferro Alloys	1		6	6	0.15
5	Oil Trap in the drains system	1	-	1	1	0.05
6	Silt Arrestation Pit in Storm Water Drains	1	-	2	2	0.1
7	Internal Road Black topping and other construction works for Paving the Floors			8	8	0.3
8	Drainage system		3	3	6	0.2
Exclusive cost of works used for EMP						
9	Cost of Septic Tank and Soak pit for Domestic Waste Water Wherein STP proposed on expansion project	1	1	7	8	0.15
10	Green Belt Plantation along with Irrigation System and Pipe Line		4	13	17	0.4
12	Fugitive dust Control Spray system in Plant	2		2	2	0.1
13	Movable Vacuum cleaning system	1		1	1	0.03
14	Wheel Washing System in Security area	1		2	2	0.05
15	On Line stack Monitoring for or stacked attached to CPP	2		3	3	0.08

S l.	Particulars	Qty. in Nos.	Existing	Proposed addition	Total cost after expansion	Operation & Maintenance cost
	and Ferro Alloys					
16	On Line AAQ monitoring station			20	20	0.5
19	On Line Effluent Quality Monitoring System (EQMS)			4	4	0.1
21	Rain Water Harvesting and Recharge system with Roof Harvesting and Rain Water Collection Tank		-	3	3	0.13
22	Noise Reduction enclosure/ anti vibration pad etc.			1	1	
23	Environmental monitoring	-	-	5	5	8
24	Occupational Health and Safety	-	-	5	5	0.8
25	CER works for improvement of surrounding Environment	-	-	50	50	-
27	Biological Conservation Plan	-	-	10	10	2
	Total Expenses in Lakhs Rs.		46	166	212	14

Written submission by the PP:

S l.	Observations by Hon'ble EAC (Ind. - I), MoEFCC, New Delhi	Reply by M/s. Agrawal Structure Mills Pvt. Ltd.
1.	PP shall submit revised CER budget.	As per the recommendations of the Committee, we hereby enclose the revised Corporate Environment Responsibility (CER) budget of Rs. 1.00 Crore in place of the earlier proposed budget of Rs. 0.50 Crore . The detailed break-up is submitted and updated at relevant para above.
2.	PP shall submit NOC from the concerned department for the seasonal nala being it located adjacent to the project site.	The application will be submitted soon to the Chief Engineer, Water Resources Department, Rajnandgaon, Chhattisgarh for issuance of NOC in respect of the seasonal nala located adjacent to the project site. The NOC shall be submitted to the Hon'ble Committee immediately upon receipt.

S l.	Observations by Hob'le EAC (Ind. – I), MoEFCC, New Delhi	Reply by M/s. Agrawal Structure Mills Pvt. Ltd.
3.	PP shall revise the pig iron capacity.	<p>As per the recommendations of the EAC, the Pig Iron production capacity has been re-assessed based on the actual operating schedule and realistic production planning. Considering an average monthly production of approximately 1,800 tonnes and maximum 350 operating days per year, the annual Pig Iron production works out to 21,000 TPA.</p> <p>Accordingly, PP hereby request that, the proposed Pig Iron capacity revised to 21,000 TPA in place of the earlier proposed 27,000 TPA.</p> <p>This revision is based on realistic operational parameters and does not result in any increase in pollution load or environmental impact.</p> <p>The same is updated at relevant para above.</p>

3.4.3. Deliberations by the committee in previous meetings

N/A

3.4.4. Deliberations by the EAC in current meetings

Deliberations by the Committee

1. The instant proposal is for expansion/modification project through change in production facilities in which addition of SAF (3.5 MVA x 2 nos.) to produce Ferro Alloys (SiMn) 11,000 TPA and/or FeMn 17,000 TPA and/or FeSi 7,000 TPA and/or Pig Iron 27,000 TPA in place of existing Cast Iron 29,700 TPA and change in fuel of existing Captive Power Plant 7.5 MW (Coal and Dolochar fuel proposed instead of existing Biomass).
2. Consent to Establish & Operate for the existing unit was accorded by Chhattisgarh Environment Conservation Board vide Ir. No. 137/RO/TS/CECB/2023 dated 25/04/2023 in the name of M/s. SKA Power & Cast Alloys Pvt. Ltd. Subsequently, M/s. Agrawal Structure Mills Pvt. Ltd. acquired this existing plant. The existing project capacity did not required EC as per EIA Notification, 2006 and amendments thereof. Consent to Operate for the Biomass Based Power Plant – unit was accorded by Chhattisgarh Environment Conservation Board vide Ir. No. Vide letter no. 4740/TS/CECB/ 2023 dated 13/09/2023 in the name of M/s. Agrawal Structure Mills Private Limited acquired this existing plant. The validity of CTO is up to 30.04.2024.
3. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
4. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
5. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
6. The EAC also took into consideration the drone survey of the project site and kml file on the Google

Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.

7. The Committee noted that the project is an expansion proposal. Accordingly, it reviewed the mitigation measures proposed by the PP w.r.t. the proposed site and nearby sensitive receptors, and found the same as adequate. The EAC also reviewed the compliance statement submitted by the project proponent regarding aspects such as land acquisition status / presence of streams or nallahs within the site / validity of baseline data / validity of the Certified Compliance Report / validity of the Public Hearing (PH), among other relevant factors. Upon examination, the Committee found the submission satisfactory for further appraisal of the proposal.
8. PP submitted that total land is 5.280 Ha. The land is already in possession, designated for industrial use, and no additional land is required for the expansion.
9. Thakurtola - 0.62 km/NNE & Torankata - 0.84 km/SSW exists along with other sensitive areas within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
10. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
11. Seasonal Nala is at 0.01 km in South along with other water bodies within the study area of the project site. The EAC opined that robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented. The EAC noted that PP was required to submit a NOC for the adjacent Nallah, however, PP submitted that application has been made for the same. **The Committee noted that submission of the requisite NOC in respect of the adjacent nala is required.**
12. The water requirement (existing 90 KLD + proposed expansion of 181 KLD) will be 271 KLD, out of which 10 KLD required for domestic purpose. 264 KLD of fresh water requirement will be obtained from the CSIDCL supply water and the remaining recycled water will be 7 KLD. The EAC recommended that the PP secure the required approval from the appropriate authority.
13. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and found it satisfactory.
14. The Committee also deliberated on the public hearing issues and the revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
15. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LIFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.
16. It is reported that Schedule-I species recorded in the study area include Jackal (*Canis aureus*), Indian Fox (*Vulpes bengalensis*), Indian Wild Boar (*Sus scrofa cristatus*), Common Mongoose (*Herpestes edwardsi*), Bengal Monitor Lizard (*Varanus bengalensis*), Indian Cobra (*Naja naja*), Indian Python (*Python molurus*) and Common Rat Snake (*Ptyas mucosa*), as per the Wildlife (Protection) Amendment Act, 2022. In view of the same, a Wildlife Conservation and Management Plan has been prepared and submitted to the PCCF (Wildlife), Raipur on 15.10.2025, and the approval of the said plan is under process. The EAC opined that the recommendations of the approved plan shall be strictly implemented in consultation with the State Forest Department.
17. PP reported that the existing plantation as on date is 500 nos. Proposed greenbelt will be developed in 1.74 ha area which is about 33% of the total project area. The total plantation about 4350 Trees (considering 2500 nos./Ha) will be planted in coming Monsoon (after receipt the EC) whereas survival rate shall be maintained in subsequent years. The EAC deliberated on the greenbelt action plan and is of the opinion that greenbelt shall be completed in conformity with MoEF&CC's OM vide F.No. IA3-

22/14/2025-IA.III (E-275538) dated 29.10.2025.

18. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
19. The Committee deliberated on the certified compliance report of Regional office and found it satisfactory.
20. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
21. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
22. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

3.4.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

3.4.6. Details of Environment Conditions

3.4.6.1. Specific

Specific	
1.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
2.	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
3.	The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
4.	Thakurtola - 0.62 km/NNE & Torankata - 0.84 km/SSW exists along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.

5.	Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
6.	Seasonal Nala is at 0.01 km in South along with other water bodies within the study area of the project site. Robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
7.	The water requirement (existing 90 KLD + proposed expansion of 181 KLD) will be 271 KLD, out of which 10 KLD required for domestic purpose. 264 KLD of fresh water requirement will be obtained from the CSIDCL supply water and the remaining recycled water will be 7 KLD. PP shall secure the required approval from the appropriate authority.
8.	Green Belt shall be developed and maintained in the project area in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
9.	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at (https://merilife.nic.in)
10.	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented, which is amounting to Rs. 1.0 Crore. The action plan shall also cover activities related to (i) promotion of environmental education and awareness (including green skills), and (ii) sub-plan to address the vulnerable sections (such as the elderly, children, pregnant women, persons with disabilities, and the terminally ill). An institutional mechanism shall be developed for monitoring the implementation of the commitments made, which shall also manage and address public grievances. The progress of implementation of PH Action plan and grievance redressal shall be submitted regularly to the Regional Office of MoEF&CC.
11.	PP shall implement the skill development programs, in alignment with relevant Government initiatives/programmes (like Mission LIFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC
12.	
13.	PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.
14.	PP shall establish a dedicated in-house Research & Development (R&D) cell aimed at identifying, evaluating, and implementing emerging clean technologies. The focus of this cell will be on enhancing

	process efficiency, minimizing waste generation, and promoting circular economy practices within the plant operations. The effectiveness of the R&D initiatives shall be reviewed periodically, and outcomes contributing to sustainability shall be documented and reported
1 5.	The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded, compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.
1 6.	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

3.4.6.2. Standard

3(a)	Metallurgical Industries (ferrous and non ferrous)
Statutory compliance	
1.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
2.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
Air Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area
3.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
4.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
5.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.

6.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
7.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
8.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
9.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
10.	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
11.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
12.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
13.	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
14.	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
15.	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
16.	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
17.	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm ³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
18.	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
Air Quality Monitoring and Preservation in case of Ferro Alloy Plants	
1.	Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
2.	The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.

3.	The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
4.	Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m ³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants.
5.	No Ferro-chrome production shall be carried out without prior Environmental clearance from MOEF&CC.
6.	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
7.	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.
Water Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
3.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
4.	Water meters shall be provided at the inlet to all unit processes in the plants.
5.	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
6.	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
7.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
8.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
9.	Air Cooled condensers shall be used in the captive power plant.
Noise Monitoring and Prevention	

1.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
2.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
3.	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948
Energy Conservation Measures	
1.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
2.	Provide LED lights in their offices and residential areas.
Waste Management	
1.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
2.	Kitchen waste shall be composted or converted to biogas for further use.
3.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
4.	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
5.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
6.	Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.
Green Belt	
1.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
2.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be

	measurable and monitor able with defined time frames.
3.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
Public Hearing and Human Health Issues	
1.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
3.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
4.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
Environment Management	
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
2.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
3.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.
Miscellaneous	
1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
2.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
5.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
6.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
7.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
8.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
9.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
10.	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
11.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
12.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
13.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
14.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
16.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

17.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
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3.5. Agenda Item No 5:

3.5.1. Details of the proposal

Expansion of Ferro Alloys Manufacturing Unit from 64,000 TPA to 88,000 TPA (Phase I: 76,000 TPA & Phase II: 88,000 TPA) (including 48,000 TPA of Medium & Low Carbon Ferro Alloys), Pig Iron (56,000 TPA) and Captive Power Plant from 20 MW to 28 MW (Phase I: 24 MW & Phase II: 28 MW) at Khasra No. 156, 500, 508, 509, 510, 511/1, 511/2, 512/1, 512/2, 513/1, -513/5 and Others, Urla Industrial Area, Raipur, Chhattisgarh by HIRA POWER AND STEELS LIMITED located at RAIPUR, CHHATTISGARH			
Proposal For		Expansion EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
IA/CG/IND1/560478/2025	J-11011/836/2008-IA.II(I)	21/12/2025	Metallurgical Industries (ferrous and non ferrous) Primary Metallurgical Industry - All Projects (3(a))

3.5.2. Project Salient Features

[Proposal no.: IA/CG/IND1/560478/2025: File No. IA-J-11011/836/2008-IA-II (IND-I)] [Consultant: Eco Orbit Consultancy Pvt. Ltd.; Valid upto: 08.01.2027]		
Sr. No.	Condition as per OM dated 11 th April 2022	Compliance by the proposed proposal
	The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those categories of project which have been exempted as per para 7 III (i) of EIA notification 2006 and its amendments.	Complied The Public hearing was successfully conducted on 21 st July, 2022.
	There should not be change in Category of the project from B2 to B1 or A due to proposed modernization or expansion.	Complied. The project falls under category A of schedule Item No 3(a) of the EIA notification. Post expansion it remains to be A category project under schedule Item No 3(a).
	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regards to mining vis-à-vis the area mentioned in the EC, based on which public hearing has been held earlier.	Complied. Proposed expansion is proposed within the existing plant premises. No additional land acquisition or forest land diversion is involved.

Sr. No.	Condition as per OM dated 11 th April 2022	Compliance by the proposed proposal
	The proposed expansion shall not be more than 50% of the production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	Complied. Proposed Production is within 40% (Phase I: 20% & Phase II: 20%).
	Predict environmental quality parameters arising out of proposed expansion/modernization as per prescribed norms.	Complied. After proposed expansion, the environmental quality parameters will be within the prescribed norms.
	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.	Complied. The greenbelt of the project remains same as stipulated in the earlier EC.
	The project proponent should have satisfactorily complied the conditions stipulated in the existing ECs and satisfactorily fulfilled all the commitments made during the earlier public hearing/consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/SPCB, which should not be more than one year old at the time of submission of application.	Complied. All the conditions stipulated in the existing EC and commitments made during the earlier public hearing proceedings and also the commitments made while granting previous expansion are satisfactorily Complied. Latest Certified Compliance Report dated 21.07.2025 is attached as Annexure 5 .
	Public consultation shall be undertaken (if applicable as per table below) by obtaining response in writing, as per para 7 III (ii) (b) of EIA notification 2006, except those categories of projects which have been exempted as per para 7 III (i) of EIA notification 2006 and its amendments.	Complied No Fresh Public Hearing is required as per office Memorandum dated 11 April 2022. However the latest Public hearing was successfully conducted on 21 st July, 2022.
	Effluent monitoring, including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	Complied.
		<ul style="list-style-type: none"> • This is to respectfully submit that the Certified Compliance Report (CCR) dated 01.12.2025 has reported eight partially complied conditions, all of which are administrative in nature

		<p>ature and pertain solely to the submission o f documentary evidence (Annexure-1). Imp ortantly, no major non-compliance has bee n reported.</p> <ul style="list-style-type: none">• In response, an Action Taken Report, along wi th complete supporting documents, was pr omptly submitted to the Regional Office of the MoEF&CC on 02.12.2025, i.e., immedia tely following the issuance of the CCR (Ann exure-2). However, as of date, no closure r eport or further communication has been re ceived from the Integrated Regional Office (IRO), MoEF&CC.• To expedite the process, IA-CMD has issued a formal request to the Regional Office via let ter dated 19.12.2025, seeking the issuance of the closure report (Annexure-3). Based o n prior experience, we understand that the i ssuance of a formal closure review report may require considerable time.• It is pertinent to highlight that the State Pollu tion Control Board has already verified and certified 100% compliance in their Certified Compliance Report.																
1.																		
2.																		
3.		<p>Project site: Nil</p> <table><tr><th>Habitation</th><th>Distance</th><th>Direction</th></tr><tr><td>Urla</td><td>840m</td><td>West</td></tr></table>	Habitation	Distance	Direction	Urla	840m	West	No R&R involved.									
Habitation	Distance	Direction																
Urla	840m	West																
4.		<table><tr><th>Poin t</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>21°19'18.17"N</td><td>81°37'11.57"E</td></tr><tr><td>B</td><td>21°19'7.52"N</td><td>81°37'19.41"E</td></tr><tr><td>C</td><td>21°18'54.09"N</td><td>81°37'8.98"E</td></tr><tr><td>D</td><td>21°18'53.78"N</td><td>81°37'0.59"E</td></tr></table>	Poin t	Latitude	Longitude	A	21°19'18.17"N	81°37'11.57"E	B	21°19'7.52"N	81°37'19.41"E	C	21°18'54.09"N	81°37'8.98"E	D	21°18'53.78"N	81°37'0.59"E	
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D	21°18'53.78"N	81°37'0.59"E																
5.																		
6.																		
	Water body (Rivers, Lake s, Pond, Nala, Natural Dr ainage, Canal etc.) exists within the project site as well as study area	<table><tr><th>Water body</th><th>Distance</th><th>Direction</th></tr><tr><td>Kharun River</td><td>3.3 km</td><td>NE</td></tr><tr><td>Chhokra Nal a</td><td>2.89 km</td><td>NNE</td></tr></table>	Water body	Distance	Direction	Kharun River	3.3 km	NE	Chhokra Nal a	2.89 km	NNE							
Water body	Distance	Direction																
Kharun River	3.3 km	NE																
Chhokra Nal a	2.89 km	NNE																

	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area.				
	Ferro Alloys		64,000 TPA [Including Low / Medium]		64,000 TPA [Including Low / Medium]
2.					
3.					
S. No.	Details of Unit	Capacity (TPA)			% Increase
		As per EC & CTO	After Phase I Expansion	After Phase II Expansion	
1	Ferro Alloys	64,000 TPA [Including Low / Medium Carbon Ferro Alloys 48,000 TPA]	76,000 TPA [Including Low / Medium Carbon Ferro Alloys 48,000 TPA]	88,000 TPA [Including Low / Medium Carbon Ferro Alloys 48,000 TPA]	18.75% increase in Phase I & 18.75% in Phase II
2	or		or		No Change
	Pig Iron	56,000 TPA	-	56,000 TPA	
3	Captive Power Plant	20 MW	24 MW	28 MW	20% increase in Phase I & 20% increase in Phase II
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S No	Existing Raw Material	Quantity (TPA)	After Expansion Raw Material (Phase I)	Quantity (TPA)	After Expansion Raw Material (Phase II)	Q
1	Coal (G.C.V=4,250)	1,52,000	Coal (G.C.V=5,200)	1,52,000	Coal (G.C.V=5,500)	
2	Coal (G.C.V=3,000)	2,08,000	Coal (G.C.V=4,300)	2,08,000	Coal (G.C.V=4,000)	
3	Coal Mix		Coal Mix		Coal Mix	
	(G.C.V = 2750)		(G.C.V = 3,250)		(G.C.V = 3060)	
a	Coal	2,08,000	Coal	2,08,000	Coal	
b	Dolochar	14000	Dolochar	50,000	Dolochar	

S No	Existing Raw Material	Quantity (TPA)	After Expansion Raw Material (Phase I)	Quantity (TPA)	After Expansion Raw Material (Phase II)	Q
c	Biomass	14000	Biomass		Biomass	

PM 10 : 58 to 115 $\mu\text{g}/\text{m}^3$ PM 2.5: 22 to 64 $\mu\text{g}/\text{m}^3$ SO₂: 5.7 to 15.2 $\mu\text{g}/\text{m}^3$ NO_x: 11.2 to 37.4 $\mu\text{g}/\text{m}^3$



	m 3
	Phase-1: PM 10 : 1. 9 mg/m ³ , PM 2.5: 1.7 2 mg/m ³ , NOx: 4.1 9 mg/m ³ , SO ₂ : 3.8 mg/m ³ Phase-1: PM 10 :





3. 17 $\mu\text{g}/\text{m}^3$, PM_{2.5}: 2.87 $\mu\text{g}/\text{m}^3$, NO_x: 4.19 mg/m^3 , and SO₂: 3.8 mg/m^3

pH: 7.12 to 7.4; Hardness: 190

	to 4 2 8 m g/ l; T D S: 3 4 8 to 7 6 2 m g/ l; C hl or id e: 5 0 to 1 5 6 m g/ l; S ul ph at e s: 1 6. 4 to 5 2 m g/ l
	p H: 6. 9 8 to 7. 5



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	to 6 2 m g/ l
	5 1. 4 to 6 3. 5 d B(A) fo r t h e d a y t i m e a n d 5 0 to 7 5 d B(A) fo r t h e n i g h t t i m e.



S. r. No	Type of waste	Cat. & S ch	Quantity (MTPA)			Disposal Method
			Existing	After Phase I Expansion	After Phase II Expansion	
1	Si-Mn Slag	-	42,000	42,000	42,000	Used for filling of low-lying area/land filling/ construction purpose/ sell to Cement
2	Fe-Mn Slag	-	51,200	60,800	70,400	Reused as raw material in manufacturing of Silico Manganese/ Sold to Si-Mn Manufacturer
3	Pig Iron Slag	-	28,000	28,000	28,000	Used for filling of low-lying area/land filling/ construction purpose/ sell to Cement
4	Bag Filter dust	-	2640	3135	3630	Reused in the manufacturing process after briquetting
5	AOD		831	8316	831	High MnO slag reused in Si-Mn production and marketed for industrial applications

S r. N o	T y p e o f w a s t e	C a t. & S c h	Quantity (MTPA)			Disposal Method
			E x i s t i n g	A f t e r P h a s e I E x p a n s i o n	A f t e r P h a s e I I E x p a n s i o n	
	Slag		6		6	
6	Mn3O4 Dust		2500	2500	2500	Recycled into the manufacturing process
7	Alumino Thermic Slag		1318	1318	1318	Sold as synthetic slag to steel plants
8	Fly Ash	-	86,000	86,000	86,000	Sold out to bricks manufactures (MOU with multiple bricks manufacturer)
9	Bottom	-	4,000	4,000	4,000	Sold out to bricks manufactures (MOU with multiple bricks manufacturer)

S r. N o	T y p e o f w a s t e	C a t. & S c h	Quantity (MTPA)			Disposal Method
			E x i s t i n g	A f t e r P h a s e I E x p a n s i o n	A f t e r P h a s e I I E x p a n s i o n	
	A s h					
10	B e d M a t e r i a l		4.0	4.0	4.0	Reused in Boiler Furnace
11	U s e d / s p e n t o i l	5.1 (S c h I)	10 KL/A	10 KL/A	10 KL/A	To authorized recycler.
12	S p e n t o i l e x c h a n g e	3.4.2 (S c h I)	0.25 MT/A	0.25 MT/A	0.25 MT/A	Sent to TSDF Site

S r. N o	T y p e o f w a s t e	C a t. & S c h	Quantity (MTPA)			Disposal Method
			E x i s t i n g	A f t e r P h a s e I E x p a n s i o n	A f t e r P h a s e I I E x p a n s i o n	
	resin containing toxic metals					
13	Empty barrel/s/containers/liners	33.1 (Sch I)	15 MT/A	15 MT/A	15 MT/A	To authorized recycler.

S r. N o	T y p e o f w a s t e	C a t. & S c h	Quantity (MTPA)			Disposal Method
			E x i s t i n g	A f t e r P h a s e I E x p a n s i o n	A f t e r P h a s e I I E x p a n s i o n	
	contaminated with hazardous chemicals / wastes					
S No.	Activity and Action Plan		Year of implementation		Total Expenditure in three years	
			(Budget in INR)		(Rs. In Lakhs)	

		1 st Year	2 nd Year	3 rd Year	
1	Health Care	1	1	1	3
2	Rainwater harvesting	0.5	0.5	0.5	1.5
3	Solid waste management facilities	3.5	3.5	3.5	10.5
4	Plantation in additional areas	3	3	3	9
5	Water Sprinkling in Road	0.25	0.25	0.25	0.75
6	Solar power	0.5	0.5	0.5	1.5
	Total	8.75	8.75	8.75	26.25

S. No.	Component	Description	Capital Cost (Rs. in Lacs)	Recurring Cost (Rs. in Lacs/Year)
1	Air Quality	Control of Stack emissions (PM, SO ₂ , NO _x , CO), fugitive dust from raw material handling, transfer points, conveyors, fly ash silos, vehicular dust suppression, EV Loader	700	60
2	Noise Quality	Control of Noise generated from Fixed-point industrial noise sources (~85-95 dB(A)), rotating machinery, vehicular & handling system	12	1
3	Water Quality	Industrial effluent Treatment, sewage Treatment, wastewater reutilization, Groundwater recharge Storm water management.	12	4.5
4	Solid and Hazardous waste	Reuse of Solid Waste generation from Ferro Alloys, Pig Iron, Captive Power Plant, APC systems, MSW & Hazardous Waste Streams	40.5	0.5
5	Ecology and Biodiversity	Air emissions (PM ₁₀ , SO _x , NO _x) control artificial lighting, heat radiation, vehicular movement	4.5	0.5
6	Socio-Economic	Long-term employment of employees, in direct jobs in logistics, vendors and ancillary support, Potential gender underrepresentation and community demand for visible CSR support, Occupational risks from	-	40

S. No.	Component	Description	Capital Cost (Rs. in Lacs)	Recurring Cost (Rs. in Lacs/Year)
		m thermal, mechanical, dust, and noise exposure, Traffic and dust near habitations during transport		
TOTAL			769	106.5
	176090 sqm	176090 sqm		
	Within premises: 14.65 Acres; Outside premises: 3.28 Acres	Within premises: 14.65 Acres; Outside premises: 3.28 Acres		
	542			
	Ferro Alloys: 64,000 TPA [Including Low / Medium	76,000 TPA [Including Low / Medium 88,000 TPA [Including Low / Medium		
		3421.5 PCU/hr		0.85%
S. No.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance / comments of Sub-Office, Raipur.	PP's Clarification
i	Six monthly compliance report for the EC letter dated 11/02/2009 have not been submitted after the grant of expansion EC letter dated 05/02/2024 - general condition No.(xii).	We would like to inform you that this is serious allegation on us and it is totally irrelevant. As per point No.6-23 of EC letter No.IA-J- 11011/836/2008-IA.II(IND-I) dated 0	No records / documents are made available by the Project Authority in their reply / ATR regarding corrective action taken on the observed non-compliance and thus non-compliance of the said condition	The Stipulated conditions of the previous EC granted vide Letter No. J-11011/836/2008- IA. II (I) dated 11/02/2009 has already been successfully verified by the previous Integrated Regional officer, Ministry of

S l. N o.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance / comments of Sub-Office, Raipur.	PP's Clarification
		<p>5/02/2024:-</p> <p>The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.</p> <p>As it is clearly mentioned that the conditions of previously granted EC are common and applicable to most of the projects in general.</p> <p>It is our general practice that we are regularly submitting Six Monthly EC compliance conditions of EC granted vide Letter No. J-11011/836/2008-</p>	<p>tion remains as reported earlier.</p> <p>This Sub-Office completely disagrees with the reply of the Project Authority on account of the following facts:</p> <ul style="list-style-type: none"> The EC letter No. J-11011/836/2008- IA.II(I) dated 11/02/2009 of MoEF&C has already implemented and the said EC has not been superseded at any point of time. Accordingly, the said EC is valid till date. In such circumstances, it is mandatory to effectively comply with all the stipulated conditions of the EC letter by the Project Authority. <p>According to the general condition No.(xii) of the EC letter dated 11/02/2009, a six monthly compliance report and the monitored data along with statistical interpretation should be submitted regularly to the MoE</p>	<p>Environment, forest and Climate Change and Closure Report has also been successfully issued vide their closure report vide letter No. 5-149/2009 (ENV)/1185 dated 09.01.2023. Copy of report is attached as Annexure-I.</p> <p>We have submitted all the Six Monthly EC compliance Report for the EC granted vide Letter No. J-11011/836/2008- IA. II (I) dated 11/02/2009 and EC letter No. IA-J- 11011/836/2008-IA.II(IND-I) dated 05/02/2024 by Email and Hard copies.</p> <p>We are uploading all the Six Monthly EC Compliance Report on the website of our company.</p> <p>During inspection by the Scientist E Ministry of Environment, Forest and Climate Change on Dated 08.10.2025, six monthly EC Compliance Report of previous EC granted vide Letter No. J-11011/836/2008- IA. II (I) dated 11/02/2009 and Six monthly EC compliance Report of the latest EC granted vide letter No. IA-J- 11011/836/2008-IA.II(IND-I) dated 05/02/2024 has already been provided. Copy of Screenshot of Sub</p>

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		<p>IA. II (I) dated 11/02/2009 along with Six monthly EC compliance report for EC letter No.IA-J- 11011/836/2008-IA.II(IND-I) dated 05/02/2024 with General conditions along with other conditions issued by Ministry of Environment, Forest and Climate Change.</p>	<p>F&CC, CECB and CPCB.</p> <ul style="list-style-type: none"> · Apart from the stipulated EC conditions, as per the paragraph 10(ii) & (iii) of EIA Notification, 2006 and also as part of self-monitoring protocol, it is "mandatory for the project management to submit half-yearly compliance reports in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year. (iii) All such compliance reports submitted by the project management shall be public document s.....". · Project Authority in their reply reported that the observation of this Office is serious allegation on them and the observation is totally irrelevant, which clearly shows that Project Authority is not having zeal to take corrective action and effectively comply with the stipulate 	<p>mission of Old EC through email to IRO,M OEFCC Raipur is attached as Annexure-II We have timely submitted six monthly EC compliance Report of the EC letter dated 11/02/2009 . Copy of all the reports is enclosed as Annexure-III (a)</p> <p>We have requested IRO,Sub office Raipur and properly followed up via email but still after around 06 months , Certified Compliance has been issued .Copy of all the correspondence with IRO,Sub office ,Raipur is enclosed as Annexure-III (b)</p>

S L N o.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance / comments of Sub-Office, Raipur.	PP's Clarification
			<p>and EC conditions rather submitting their own presumptions and assumptions as a reply, which tantamount contravention to the provisions of Environment (Protection) Act, 1985.</p> <ul style="list-style-type: none"> · In the recent past, Compliance and Monitoring Division of MoEF&CC requested this Office to ensure furnishing compliance status of all the valid ECs of the Project. · As a regulatory authority, this Office reported the factual status of compliance on the EC condition, based on the available records. If such diligent act is termed as irrelevant and serious allegation on the Industry, which needs to be further examined by the Ministry for taking further appropriate action. 	

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			<p>· From the above submissions, it is evident that Project Authority has neither effectively complied with the general condition No.(xi) of the EC letter dated 11/02/2009 and also the paragraph 10(ii) of EIA Notification, 2006, even after the communication of this Office.</p>	
ii	Details are not made available regarding Newspaper advertisement – general condition No.(xiii).	This document is old and unfortunately missing from our official record. The same was verified and closed by Integrated Regional Office, Naya Raipur Atal Nagar vide their Final Closure Report vide their letter No. 5-149/2009(ENV)/1185 Dated 09.01.2023.	Project Authority in their reply has not furnished any supporting document in respect of the Newspaper advertisement published in compliance with general condition No.(xiii) rather reported irrelevant things as a reply. In the absence of mandated Newspaper advertisement, the condition remains as not-complied. Project proponent or any other Authority neither alter the EC condition as their own nor condone the non-compliance of the EC conditions, merely based on the self-declarations of the Project proponent. Ministry may take a	Copy of Newspaper advertisement is old and unfortunately missing from our official record. The same was verified and closed by Integrated Regional Office, Naya Raipur Atal Nagar vide their Final Closure Report vide their letter No. 5-149/2009(ENV)/1185 Dated 09.01.2023

S L N o.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance / comments of Sub-Office, Raipur.	PP's Clarification
			ppropriate view.	
Letter No.IA-J-11011/836/2008-IA.II(IND-I) dated 05/02/2024 of MoEF&CC				
iii	Details are not made available regarding implementation of the specific condition No.(viii) regarding village adoption programme and action plan & its implementation to develop the m into a model village.	We have already submitted a letter to the District Collector, Raipur regarding Development activities carried out by us in Acholi village vide our letter No.2184/HPSL/2025-26/2184 dated 09.10.2025. This letter is also submitted to IRO, Raipur through Email dated 10.10.2025. Copy of letter is enclosed as Annexure-I.	Specific condition No.(viii) reads "As committed, PP shall undertake village adoption programme and prepare and implement the action plan to develop the m into a model village". From the grant of EC to till the date of monitoring of the Project (08/10/2025) no records are available in this Office regarding, compliance of village adoption programme prepared, village adoption undertaken and implement the action plan to develop them into model villages. The subject of the document referred as Annexure-1 in the action taken report is mentioned as "Submission of compliance Report under Corporate Environment Responsibility (CER) - Developmental Activities at Acholi Village". In the said letter (Annexure-1) there is no mention about the adoption of Village to develop them into a model village.	The following works have been successfully completed and are being regularly maintained in consultation with the Birgaon Nagar Nigam and District Administration, our company has carried out CER work at Acholi village for community development. 1.Construction of Two Sulabh Sauc halayas (Public Toilets) in Acholi village to promote sanitation and hygiene 2. Development of a Muktidham (Cremation Ground) with necessary facilities for public use. 3. Development and Maintenance of Two Public Gardens-one located at Urla Chowk and another at Young India Chowk, providing green and recreational spaces for the community. 4. Roadside Plantation Drive in and around the adopted area to enhance greenery and en

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			<p>In the said letter no reference regarding village adoption programme prepared. In the said letter simply reported that some community development work has been carried out under CER activities. The condition regarding implementation of CER activities has been stipulated as General Condition No.IX(i) of the EC letter dated 05/02/2024. This Office has already mentioned the CER activities as Annexure- 1 in the monitoring report issued.</p> <p>In the absence of preparation of village adoption programme and action plan for implementation to develop into a model villages as stipulated in the EC conditions, this Office has reported that condition has not been complied with. The compliance status remains as reported earlier. Ministry may take appropriate view based on the commitment referred therein the EC condition as committed by the Project Authority at the time of Project Appraisal for the EC letter date</p>	<p>environmental quality.</p> <p>All the above works have been carried out under the CER framework and are being maintained by our company to ensure sustainability and long-term benefit to the local population.</p> <p>We remain committed to continuing our efforts toward social and environmental upliftment in coordination with your esteemed office and the concerned Birgaon Nagar Nigam.</p> <p>Also we have spent Rs 12,83,30,282/- under CER in Achholi Village. Letter submitted to Collector for development works carried out by our Plant is attached as Annexure- I V</p>

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			d 05/02/2024.	
iv	Project Authority has installed only one CAAQM Station instead of two CAAQM Stations comprising of within and outside the plant area covering upwind and downwind directions. Project Authority has not linked the existing CAAQMS with the server of CPCB – general condition No.(II)(i), general condition No.(II)(ii) & general condition No.(II)(xxii).	We have already installed Two Continuous Ambient Air Quality Monitoring Systems, one is installed inside our plant premises and other is situated nearby 500 meter in our Hira Power and Steels Ltd., Unit-I, Urla industrial complex. Hence we satisfactorily installed two CAAQM Stations have comprising of within and outside the plant area covering upwind and downwind directions. We have also linked both Continuous Ambient Air Quality Monitoring Systems to the server of Chhattisgarh Environment Conservation Board which in turn transmits Data to CPCB. A Screenshot of Continuous Ambient Air Monitoring Station reading is attached as Annexure-II.	This Office completely disagree with the reply of the Project Authority submitted in their action taken report. In accordance with general condition No.(II)(i) and No.(II)(xxii) of the EC, one CAAQM Station installed has not been linked with the server of CPCB as mandated and thus it was reported as partly complied. In accordance with general condition No.(II)(i) of the EC, instead of installing Continuous Ambient Air Quality monitoring Stations for monitoring the pollutants released within and outside the plant area, both upwind and downwind directions, Project Authority has installed one CAAQM station and thus it was reported as partly complied. Project Authority while furnishing the input to this Office through e-mail communication, they mentioned only one CAAQMS. Now in the action taken rep	We will like to inform that We have already installed Two Continuous Ambient Air Quality Monitoring Systems, one is installed inside our plant premises and other is situated nearby 500 meter in our Hira Power and Steels Ltd., Unit-I, Urla industrial complex. Hence we satisfactorily installed two CAAQM Stations have comprising of within and outside the plant area covering upwind and downwind directions. We have also linked both Continuous Ambient Air Quality Monitoring Systems to the server of Chhattisgarh Environment Conservation Board which in turn transmits Data to CPCB. Copy of Screenshot is attached as Annexure- V

S L N o.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance / comments of Sub-Office, Raipur.	PP's Clarification
			<p>ort they claim the other CAAQMS installed in another Unit for this Unit, which is not accepted by this Office. If such practice is allowed, there will be a chaos among the industries. Ministry may take appropriate view in this regard.</p> <p>Despite of knowing the fact that CAAQMS needs to be linked with the server of the CPCB, Project Authority neither complied with nor submitted any time bound action plan.</p>	
v	<p>Project Authority either should comply with the condition or the conditions, which are not applicable to the project needs to be amended appropriately by following the procedures from the MoEF&CC - general condition No.(II)(xii), general condition No.(I)(xx) & general condition No.(VI)(i).</p>	<p>We have already informed Ministry of Environment, Forest and Climate that mentioned conditions are not applicable on us. In the nearby future, whenever New Environment Clearance will be granted, we will inform MoEF & CC to amend all such condition which will not be applicable on us.</p>	<p>Project Authority claims that the general condition No.(II)(xii), general condition No.(II)(xx) & general condition No.(VI)(i) of the EC are not applicable to the Project. Project Authority either should comply with the condition or the conditions, which are not applicable to the project needs to be amended appropriately by following the procedures. So far, no documents are made available regarding the amendments undertaken on these conditions and thus non-compliance remains as reported earlier. Project</p>	<p>We have already informed MoEF&CC that the mentioned conditions the general condition No.(II)(xii), general condition No.(I)(xx) & general condition No.(VI)(i) of the EC are not applicable to our Project vide Six Monthly EC compliance Reports submitted for the granted vide letter No. IA-J- 11011/836/2008-IA.II(IN D-I) dated 05/02/2024.</p>

S L. N o.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance / comments of Sub-Office, Raipur.	PP's Clarification
			<p>Project Authority in their reply stated that they have already informed MoEF&CC that the mentioned conditions are not applicable. However, in this regard no supporting documents are made available in their reply.</p> <p>In view of the above, Ministry may take appropriate view.</p>	
vi	<p>Project authority has not organized awareness among people working within the Project area as well as its surrounding area on the ban of SUP - general condition No.(VI)(iv).</p>	<p>We would like to inform you that there is no generation/use of single use plastic in our plant premises. We have banned SUP long time back inside of our plant premises. This is the biggest proof that we are creating awareness regarding SUP from our homes to our Plant area. In future we will always follow the ban on SUP in our plant premises.</p>	<p>In the action taken report, Project Authority has not submitted any details regarding awareness programme organized among people working within the Project area as well as its surrounding area rather it has been reported that there is no generation/use of single use plastic in the above Unit. The stipulated condition is not the use of plastics in the industry rather it pertains to organize awareness among people on the ban of SUP. As there is no any details regarding awareness programme organized by this Unit, among people working within the Project area as well as its surrounding area on the ban of SUP, the condition remains as not compli</p>	<p>We have created awareness among people for ban on SUP and the plastic pollution in our World Environment Day Celebration on 05.06.2025. Photographs are attached as Annexure - VI</p>

S l. No.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance / comments of Sub-Office, Raipur.	PP's Clarification
			ed.	
vii	CO sensors with alarm system have not been installed at strategic locations of the Plant- general condition No.(II)(xxvi).	We have already provided 02 Nos. of CO sensors with alarm system at strategic locations of the Plant. Photographs are enclosed as Annexure- I II.	In the monitoring report, this Office has reported that CO sensors with alarm system have not been installed at strategic locations of the Plant rather portable CO analyzer has been provided at shop floor. The same has been shown in the photographs of the Annexure-III of the reply/action taken report. Ministry may take appropriate view in this regard.	In our Process for production of High Carbon Ferro Alloys we are using semi-closed hood system hence the CO gas generated and unused in the furnace are burnt to CO ₂ above the charge level when it gets in contact with atmospheric air. Hence possibility of generation of Carbon monoxide is Very low. Also we have provided 02 Nos. of portable CO sensors with alarm system at strategic locations of the Plant. Photographs are enclosed as Annexure- VII
viii	Details are not made available regarding heat stress survey undertaken - general condition No.(IV)(iii) & general condition No.(VIII)(ii).	We have conducted Comprehensive Industrial Hygiene Survey through Third Party on 09.10.2024 in which Stress Analysis is also being conducted. Copy of report is enclosed as Annexure-IV.	Project Authority in their reply submitted a report titled as "Comprehensive Industrial Hygiene Survey at Hira Power and Steel Ltd. - Urla" dated 09/10/2024 as Annexure-IV. The said report comprises heat stress survey is also one of the components and thus the condition may be treated as complied with.	This condition is successfully complied with.

Unit falls under a Critically Polluted Area (CPA) category, requiring stringent environmental safeguards. The following table provides a consolidated compliance report with respect to the mitigation measures mandated under the Ministry of Environment, Forest and Climate Change (MoEF&CC) Office Memorandum

Action Point	Compliance Status	Implementation Status
<p>Stack emission levels should be stringent than the existing standards in terms of the identified critical pollutants.</p>	<ul style="list-style-type: none"> · The primary emissions from the units comprises particulate matter and gaseous substances. To mitigate these pollutants, high-efficiency bag filters and gas cleaning facilities have been installed. These systems are designed to effectively reduce both gas and dust emissions. The emissions from Submerged Arc Furnace is being sucked through hoods and then pass through a fume extraction system with Bag Filter and then resulting cleaned gas is being released into the atmosphere through chimney from effective dispersion of emissions from furnaces. Online Continuous Emission Monitoring system (OCEMS) has already been installed to Submerged Arc furnace and connected to CPCB server. · Stack emission from all the stacks is being maintained within 25 mg/Nm³. · Ferro Alloy Plant: Bag Filter (5 no). · Power Plant: ESP (Three fields ESP) 	<p>We have complied. Date of completion - 25.08.2022</p>
<p>CEMS may be installed in all large/medium red category industries (air polluting) and connected to SPCB and CPCB server.</p>	<ul style="list-style-type: none"> · CEMS has already been installed with following stacks in the existing Plant and connected with SPCB and CPCB server. · Ferro Alloy Plant: (4 No's) Stack connected with Bag filters · Power Plant: (1 No.) Stack connected with ESP 	<p>We have complied. Date of Completion- 25.08.2022.</p>
<p>Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.</p>	<ul style="list-style-type: none"> · All material transfer points are connected with Dust Extraction system attached with Bag filter. · Dust extraction measures with swivel hood, ID fan are provided at different loading, unloading and transfer points in the raw material handling section. · Fumes and gases in SAF and other sections are removed by Fume extraction system with bag house followed by stack. · Adequate dust suppression system in the form of water sprinklers (45 No.) are provided at raw material yard, solid waste dump site and along the vehicular roads. · All internal roads are of concrete and well maintained. Repairing work required, if any, is carried out immediately. No dust problem arises within the factory premises due to transportation. · Adequate spares of critical components of dust collection systems have been kept ensuring trouble free operations and continuous compliance to emission norms. 	<p>We have complied. Date of Completion- 03.04.2018</p>
<p>Transportation of materials by rail/ conveyor belt,</p>		<p>We have complied</p>

Action Point	Compliance Status	Implementation Status
wherever feasible		
Encourage use of cleaner fuels (pet coke/ furnace oil/ ISHS may be avoided).	Coal and coke is being used as fuels in the plant as these are basic raw materials to be used for Ferro alloys products.	We have complied Date of completion - 25.04.1995
Best Available Technology may be used. For example, usage of EAF/SAF/ IF in place of Cupola furnace. Usage of Supercritical technology in place of sub-critical technology.	<ul style="list-style-type: none"> Submerged Arc Furnace is being used for Ferro Alloys production which is best available proven technology. Polyester filter bags with high quality Polyester Needle Felted fabric filter bags. Process with minimal emission DCS Operated manufacturing plants 	We have complied Date of completion - 25.04.1995 We have complied Date of completion - 05.05.2024.
Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.	<ul style="list-style-type: none"> We would like to inform you that we have achieved the target of more than 40% greenbelt. We are increasing the density of existing plantation inside the plant premises Greenbelt Length towards the west side is ranging from 40m to 160m (including tall trees and good canopy). Damaged plants are being replaced with new plants every year. 	We have completed Date of completion - 13.01.2023
Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.	<ul style="list-style-type: none"> Hira Power and Steel Limited has also done the road side plantation of 3.5 Km on road side from gate of the plant to young India chowk, Police station, From Main Gate to Jai hind chowk. Outside Plantation=3245 No. (in 3.28 Acres) 	We have completed Date of completion - 13.01.2023
Assessment of carrying capacity of transportation load on roads inside the industrial premises. If the roads required to be widened, shall be prescribed as a condition.	Adequate Roads of proper width are available inside the plant premises. Already 9 meter wide road network is developed.	We have complied Date of completion - 25.04.1995
Water Pollution Management		
Reuse/recycle of treated wastewater, wherever feasible	Water is being used only for cooling purpose in recirculating manner. No any treated / untreated effluent is being discharged outside the factory premises. Waste water after treatment is being used for plantation and dust suppression purposes. Cooling Tower discharge water is being used for dust suppression purpose, inside the plant premises. Domestic waste water after treatment is being used for plantation and Dust suppression.	We have complied Date of completion - 17.04.2006
Continuous monitoring of effluent quality/quantity in large and medium Red Category Industries (water polluting).	The project is based on Zero Liquid Discharge. Continuous monitoring of effluent is being carried out to ensure 100 % recycle in own premises and no discharge outside the factory premises.	We have complied Date of completion - 25.04.1995

Action Point	Compliance Status	Implementation Status
A detailed water harvesting plan may be submitted by the project proponent	Rain water harvesting pits and ground water recharge wells have been constructed in consultation with recognized agency to harvest the rainwater to improve water table. 08 number of rain water harvesting structures has been constructed in the plant premises.	We have complied Date of completion - 05.01.2024
Zero- liquid-discharge-whenever-techno economically feasible.	The project is based on Zero Liquid Discharge. Continuous monitoring of effluent is being carried out to ensure 100 % recycle in own premises and no discharge outside the factory premises.	We have complied Date of completion - 25.04.1995
In case, domestic waste water generation is more than 10 KLD, the industry may install STP.	The domestic water is being treated in Installed Sewage Treatment Plant and reused for green belt development.	We have complied Date of completion - 10.02.2024
Land Pollution Management		
Action Point	Compliance Status	
Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever, feasible for new projects	<ul style="list-style-type: none"> · Inside Plantation= 17528 No. (in 14.65 Acres) · Outside Plantation=3245 No. (in 3.28 Acres) · Total Plantation=20,773 No. · We would like to inform you that we have achieved the target of more than 40% greenbelt. We are increasing the density of existing plantation inside the plant premises. · Greenbelt Length towards the west side is ranging from 40m to 160m (including tall trees and good canopy). Damaged plants are being replaced with new plants every year. 	We have completed Date of completion - 13.01.2023
Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.	<ul style="list-style-type: none"> · Hira Power and Steel Limited has also done the road side plantation of 3.5 Km on road side from gate of the plant to young India chowk, Police station, From Main Gate to Jai hind chowk. · Outside Plantation=3245 No. (in 3.28 Acres) 	We have completed Date of completion - 13.01.2023
Dumping of waste (fly ash, slag, red mud, etc.) may be permitted only at designated locations approved by SPCBs/ PCCs.	<ul style="list-style-type: none"> · 51,200 TPA- FeMn and SiMn Slag, It is reused in Manufacturing of SiMn and presently sold to market · 2,640 TPA Bag Filter Dust will be Recycled/Reused in the Manufacturing process after briquetting. · 1,980 TPA Mn3O4 Dust will be Recycled/Reused in the Manufacturing process. · 8,315 TPA AOD slag is High MnO Slag used in manufacturing of Si-Mn, presently sold to market. · 90,000 TPA Fly Ash used for Brick/Block/Other products manufacturing. 	We have complied Date of completion - 17.04.2006

Action Point	Compliance Status	Implementation Status
More stringent norms for management of hazardous waste. The waste generated should be preferably utilized in co-Processing.	<ul style="list-style-type: none"> Generated Used Oil is being used for machinery lubrication and balance is being stored in covered HDPE Drums & given to CECB approved vendors/authorized recycler. Spent ion exchange resin is reused in process. Empty barrels/containers are sold to authorized recyclers (if generated) 	We have complied
Other Condition(additional)		
Monitoring of compliance of EC conditions may be submitted with third party audit every year.		We have complied
The % of the CER may be at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.	As per the Norms allocated value for CER is 10.0 Lakhs. We have spend Approx. Rs 13,06,800.00 for development of Public Bathroom and Toilets at Village Achholi Ward No.-08, Nagar Nigam Birgaon Raipur (C.G)	We have complied Date of Completion of Public bathrooms and Toilets at Village Achholi ward No. 08 Nagar Nigam Birgaon Raipur (C.G.)- 22.03.2024
a)	(i) red category, beyond five hundred meters; (ii) orange category, (iii) green category, beyond thirty meters;	
b)	(i) red category, beyond five hundred meters; (ii) orange category, beyond two hundred meters; (iii) green category, beyond one hundred meters.	Since, the existing facility had been established ... and the proposed expansion is being done within the existing plant boundary, the siting criteria norms do not follow through. Additionally, the unit complies with the all environment and pollution control mitigation measures. + <ul style="list-style-type: none"> Settlement: Urla (0.8 km, W) Educational Institute: Raipur School (0.25 Km, E) Worship Place: Shri Mahakaleshwar Temple (0.3km, E). Archaeological Monument: None within 500m area. National Park: None within 500m area. Reserve Forest: None within 500m area. Heritage Site: None within 500m area.
c)		
d)		
Written submission by the PP:		

3.5.3. Deliberations by the committee in previous meetings

N/A

3.5.4. Deliberations by the EAC in current meetings

Deliberations by the Committee

1. The instant proposal is for a two-phased expansion of its existing integrated metallurgical facility. In Phase I, Ferro Alloys production will increase from 64,000 TPA to 76,000 TPA by operating the existing Submerged Electric Arc Furnaces (SEAF) at higher efficiency without installing new units. During this phase, the Captive Power Plant (CPP) capacity will be increased from 20 MW to 24 MW through the installation of a 28 MW Turbine Generator set. In Phase II, Ferro Alloys production will increase from 76,000 TPA to 88,000 TPA by installing an additional 9 MVA SEAF, and to enhance CPP capacity from 24 MW to 28 MW by bringing the full 28 MW Turbine into operation. Thus in the instant proposal, Ferro Alloys production will increase from 64,000 TPA to 76,000 TPA and CPP from 20 MW to 24 MW [**20% expansion in Phase I**] under para 7(ii) of EIA Notification, 2006 [OM dated 11.04.2022].
2. The EAC deliberated on the justification provided by the Project Proponent for appraisal of instant proposal under para 7(ii) of EIA Notification, 2006 in pursuance to the Ministry's O.M. dated 11.04.2022 and found it satisfactory. Further, since PP has prepared the Addendum EIA/EMP for seeking expansion of production capacity of Ferro Alloys production and CPP upto 40% in two phases, and considering the provisions mentioned in the O.M. dated 11.04.2022, **the EAC agreed to apprise the proposal for expansion for the proposed 20% expansion of Ferro Alloys production from 64,000 TPA to 76,000 TPA and CPP from 20 MW to 24 MW in Phase-I in the instant case.**
3. The existing project was initially implemented after obtaining NOCs from the Madhya Pradesh Pollution Control Board (MPPCB) in 1994 for production of 30,000 TPA of Ferro Alloys. Subsequently, Environmental Clearance for an additional capacity of 18,000 TPA of Ferro Alloys was granted vide MoEF&CC letter No. F. No. J-11011/836/2008-IA-II(I) dated 11.02.2009. Prior to the said clearance, the plant was operating with a capacity of 30,000 TPA of Ferro Alloys along with a 20 MW power plant. Thereafter, the project was accorded Environmental Clearance by MoEF&CC vide letter No. IA-J-11011/836/2008-IA-II(IND-I) dated 05.02.2024 for enhancement of Ferro Alloy production capacity from 48,000 TPA to 64,000 TPA through improvement in efficiency and use of better quality raw materials, without any change in plant and machinery. The project subsequently obtained Consent to Establish-cum-Operate from the Chhattisgarh Environment Conservation Board (CECB) vide letter No. 10518/TS/CECB/2024 dated 28.03.2024, followed by renewal of Consent to Operate vide letter No. 11027/TS/CECB/2025 dated 21.02.2025, which is valid up to 28.02.2030.
4. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/ domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
5. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
6. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
7. The Committee noted that the project is an expansion proposal applied under Para 7(ii)(a). Accordingly, it reviewed the mitigation measures proposed by the PP w.r.t. the proposed site and nearby sensitive receptors, and found the same as adequate. The EAC also reviewed the compliance statement submitted by the project proponent regarding aspects such as land acquisition status / presence of streams or nallahs within the site / validity of baseline data / validity of the Certified Compliance Report / validity of the Public Hearing (PH), among other relevant factors. Upon examination, the Committee found the submission satisfactory for further appraisal of the proposal.
8. The total project area is 17.6 Ha. This land is under the possession of the company.

9. The EAC deliberated on the compliance of the conditions as per Ministry's guideline dated 24th October 2019 and found it satisfactory. The Committee noted that green belt should be developed covering 40% of the total project area.
10. The nearest habitation to plant is Urla Village at distance of 0.84 Km along with other sensitive areas including school within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
11. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
12. There are water bodies within study area of the project site. The EAC opined that robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
13. After the proposed expansion, the total freshwater requirement will marginally increase to 616 KLD in Phase I and 690 KLD in Phase II. The source of water supply will be CSIDC water supply, Supply of Treated water of STP of Raipur Municipal Corporation (655 KLD) & Ground water (35 KLD). The EAC opined that the PP secure the required approvals from the competent authority.
14. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project along with the pollution load assessment for the 40% expansion and observed that emission load is slightly increasing after the proposed expansion. Accordingly, the EAC found it satisfactory to appraise the instant proposal under para 7(ii) of EIA Notification, 2006.
15. The Committee also deliberated on the earlier public hearing issues and the status of compliance of action plan submitted by the proponent to address the issues raised during the public hearing along with the additional plan towards socio-economic development and found it satisfactory.
16. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.
17. PP reported that The total project area is 17.60 hectares, out of which 5.86 hectares, accounting for 33.3% of the total area, has been developed as greenbelt. The greenbelt comprises 17,563 trees planted within the plant premises over 14.65 acres and 3,210 trees planted outside the premises over 3.28 acres, including roadside plantation along 3.5 km from the plant gate to Young India Chowk, covering an area of 1.4 hectares. In total, 20,773 trees have been planted. In total, the greenbelt coverage has exceeded 40%. The greenbelt width on the western side varies from 40 m to 160 m, providing an effective buffer. Regular annual gap filling is undertaken to maintain plant density. The EAC deliberated on the greenbelt action plan and is of the opinion that greenbelt shall be completed in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025 and CEPI Guidelines.
18. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
19. **The Committee deliberated upon the certified compliance report of IRO, MoEF&CC and along with the ATR submitted by the project proponent and noted that IA CMD has already seized the matter for ensuring compliance of EC conditions. Accordingly, the EAC opined that the project proponent needs to obtain and submit Action Closure of IA-Compliance & Monitoring Division of MoEF&CC.**
20. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.
21. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions

of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.

22. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

23. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

3.5.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

3.5.6. Details of Environment Conditions

3.5.6.1. Specific

Specific	
1.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
2.	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
3.	The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
4.	The Captive Power Plant(s) using coal or lignite shall comply with emission standards notified vide G.S.R. 465(E) dated 11-07-2025.
5.	In pursuance to MoEF&CC OM's dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI areas shall be implemented as per the submitted plan.
6.	PP shall prepare and implement project specific AAQ plan to minimise the pollution load.
7.	The nearest habitation to plant is Urla Village at distance of 0.84 Km along with other sensitive areas including school within the study area of the project site. Proponent shall take appropriate environmental

	safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
8.	Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
9.	There are water bodies within study area of the project site. Robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
10.	The total freshwater requirement will marginally increase to 616 KLD in Phase I and 690 KLD in Phase II. The source of water supply will be CSIDC water supply, Supply of Treated water of STP of Raipur Municipal Corporation (655 KLD) & Ground water (35 KLD). PP shall secure the required approvals from the competent authority.
11.	Green Belt shall be developed and maintained in the project area in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025 and CEPI Guidelines. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
12.	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on Merilife portal at (https://merilife.nic.in)
13.	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
14.	PP shall implement the skill development programs, in alignment with relevant Government initiatives/programmes (like Mission LIFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC.
15.	PP shall Install CO sensors with alarms at strategic locations in the Plant.
16.	PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.
17.	PP shall establish a dedicated in-house Research & Development (R&D) cell aimed at identifying, evaluating, and implementing emerging clean technologies. The focus of this cell will be on enhancing process efficiency, minimizing waste generation, and promoting circular economy practices within the plant operations. The effectiveness of the R&D initiatives shall be reviewed periodically, and outcomes contributing to sustainability shall be documented and reported

1 8.	The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded, compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.
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3.5.6.2. Standard

3(a)	Metallurgical Industries (ferrous and non ferrous)
Statutory compliance	
1.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
2.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
Air Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 02 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area covering upwind and downwind directions.
3.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
4.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
5.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
6.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
7.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.

8.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
9.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
10.	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
11.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
12.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
13.	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
14.	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
15.	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
16.	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
17.	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm ³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
18.	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
Air Quality Monitoring and Preservation in case of Ferro Alloy Plants	
1.	Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
2.	The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
3.	The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
4.	Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz

	should be within 10 mg/m ³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants. (in case of Silico Manganese and Ferro Silicon alloy steel)
5.	No Ferro-chrome production shall be carried out without prior Environmental clearance from MOEF&CC.
6.	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
7.	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

Water Quality Monitoring and Preservation

1.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
3.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
4.	Water meters shall be provided at the inlet to all unit processes in the plants.
5.	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
6.	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
7.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
8.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
9.	Air Cooled condensers shall be used in the captive power plant.

Noise Monitoring and Prevention

1.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
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2.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
3.	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.
Energy Conservation Measures	
1.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
2.	Provide LED lights in their offices and residential areas.
Waste Management	
1.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
2.	Kitchen waste shall be composted or converted to biogas for further use.
3.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
4.	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
5.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
6.	Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.
Green Belt	
1.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
2.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
3.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from

	exposed soil surface.
Public Hearing and Human Health Issues	
1.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
3.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
4.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
Environment Management	
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
2.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
3.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.
Miscellaneous	
1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
2.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

4.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
5.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
6.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
7.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
8.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
9.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
10.	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
11.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
12.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
13.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
14.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
16.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
17.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

3.6. Agenda Item No 6:

3.6.1. Details of the proposal

Expansion in Production of sponge iron from 1,20,000 TPA to 1,80,000 TPA by adding of 2x100 TPD DRI unit and change in Technology from Induction Furnaces to Submerged Arc Furnaces (SAF) (12MVA*2) for the production of Fe-Si/ Fe-Mn/ Si-Mn/ Pig Iron- 64,000 TPA and additional 4 MW CPP (WHRB) of M/s. Sri Venkatesh Iron & Alloys (India) Limited, located at village Lapanga, P.O. Bhadaninagar, District Ramgarh, Jharkhand. by SRI VENKATESH IRON AND ALLOYS INDIA LIMITED located at RAMGARH, JHARKHAND			
Proposal For		Expansion EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
IA/JH/IND1/543433/2025	J-11011/417/2017-IA.11(1)	27/12/2025	Metallurgical Industries (ferrous and non ferrous) Sponge Iron Manufacturing Industry (3(a))

3.6.2. Project Salient Features

[Proposal no.: IA/JH/IND1/543433/2025: File No. IA-J-11011/417/2017-IA.II (I)] [Consultant: Rian Enviro Private Limited (REPL); Valid upto: 11.09.2027]				
		Terms of Reference		12.02.2028
Details of EDS sought by Ministry		Reply of PP		
1. Point 1. NOC from State WRD w.r.t. the adjacent nallah/ stream.		<p>It is submitted that a seasonal nallah exists in the vicinity of the project area. The project site does not encroach upon the natural drainage, and adequate buffer distance has been maintained as per applicable guidelines. We have applied to the State Water Resources Department (WRD) for issuance of NOC/certification confirming that the project activities do not obstruct the natural flow of the nallah / stream. The WRD NOC/certification, upon receipt, shall be submitted to the Ministry. Copy of receiving of submission of application to WRD is submitted. Office of the Executive Engineer, Water Resources Department, Jalpath Anchal, Hazaribagh (Memo No. 816 dated 23.12.2025), regarding issuance of No Object ion Certificate (NOC) for the proposed industrial expansion of M/s Sri Venkatesh Iron & Alloys (India) Ltd., Village-Lapanga, Post Office-Bhadani Nagar, District-Ramgarh, Jharkhand.</p> <p>As mentioned in the above-referred letter, the proposal has been examined in light of the relevant guidelines of the Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India, including assessment based on 1 in 25 years flood plain data, and the same has been duly recommended for further necessary action. The NOC will be granted at the earliest from the Head office of WRD Ranchi Jharkhand.</p>		
2. Point 2. In light of multiple non-compliances in CCR, Review report		Review report on Action Taken from RO MoEF&CC has been issued through vide letter No. 103-554/ROR-2020 dated 01.12.2025. The major finding is 11 partially complied conditions detected and 01 not complied condition have been highlighted.		

Details of EDS sought by Ministry	Reply of PP																									
from RO MoEFCC or Closure Report from IA CMD be submitted	hted in bold ink, and PP informed for taking corrective measures Copy of the Review Report is attached.																									
Point 3. Detailed implementation status of the project in tabular form since start/ inception, duly linking it with CTE/ CTO/ EC, along with uploading the supporting document.	A detailed tabular statement indicating the stage-wise implementation of the project from inception has been shown below.																									
	<table><tr><th>S.N.</th><th>Project Milestone</th><th>Date</th><th>Supporting documents</th><th>Approved production capacity</th></tr><tr><td>1</td><td>Establishment of the Plant</td><td>16-07-2005</td><td>Consent To Establishment issue by Jharkhand State Pollution Control Board through vide CTE Ref No. N-432, dated 16-07-2005).</td><td>Sponge Iron- 400 TPD)</td></tr><tr><td>2</td><td>Plant Operation</td><td>From Year 2005 to Till date</td><td>CTO Ref No. JSPCB/HO/RNC/CTO-23783817/2025/2819 dated 2025-12-09</td><td>Sponge Iron- 400 TPD)</td></tr><tr><td>3</td><td>Earlier Expansion</td><td>24-01-2020</td><td>Environmental Clearance vide ref. no. J-11011/417/2017-IA. I (I) dated 24.01.2020 CTE for Expansion - Ref No.: JSPCB/HO/RNC/CTE-16484600/2023/601 dated 21-10-2023</td><td>Sponge Iron -400 TPD, Billet - 245 TPD (2X12 T Induction Furnace), Billet Caster - 240 TPD, Power (WHRB) 8 MW, Power (AFBC) - 8 MW, Briquette - 26 TPD.</td></tr><tr><td>4.</td><td>Proposed Expansion</td><td>13/02/2025</td><td>TOR Granted by MoEF&CC through vide File No.: J-11011/417/2017-IA.11(1) dated 13/02/2025</td><td>Expansion in Production of sponge iron from 1,20,000 TPA to 1,80,000 TPA by adding of 2x100 TPD DRI unit and change in Technology from Induction Furnaces to Submerged Arc Furnaces (SAF) (12MVA*2) for the production of Fe-Si/ Fe-Mn/ Si-Mn/ Pig Iron-64,000 TPA and additional 4 MW CPP (WHRB). The Supporting documents such as copies of EC, CTE, CTO, TOR are attached.</td></tr></table>	S.N.	Project Milestone	Date	Supporting documents	Approved production capacity	1	Establishment of the Plant	16-07-2005	Consent To Establishment issue by Jharkhand State Pollution Control Board through vide CTE Ref No. N-432, dated 16-07-2005).	Sponge Iron- 400 TPD)	2	Plant Operation	From Year 2005 to Till date	CTO Ref No. JSPCB/HO/RNC/CTO-23783817/2025/2819 dated 2025-12-09	Sponge Iron- 400 TPD)	3	Earlier Expansion	24-01-2020	Environmental Clearance vide ref. no. J-11011/417/2017-IA. I (I) dated 24.01.2020 CTE for Expansion - Ref No.: JSPCB/HO/RNC/CTE-16484600/2023/601 dated 21-10-2023	Sponge Iron -400 TPD, Billet - 245 TPD (2X12 T Induction Furnace), Billet Caster - 240 TPD, Power (WHRB) 8 MW, Power (AFBC) - 8 MW, Briquette - 26 TPD.	4.	Proposed Expansion	13/02/2025	TOR Granted by MoEF&CC through vide File No.: J-11011/417/2017-IA.11(1) dated 13/02/2025	Expansion in Production of sponge iron from 1,20,000 TPA to 1,80,000 TPA by adding of 2x100 TPD DRI unit and change in Technology from Induction Furnaces to Submerged Arc Furnaces (SAF) (12MVA*2) for the production of Fe-Si/ Fe-Mn/ Si-Mn/ Pig Iron-64,000 TPA and additional 4 MW CPP (WHRB). The Supporting documents such as copies of EC, CTE, CTO, TOR are attached.
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Point 4. Proof of acquisition of land	The Project Proponent has acquired the required land for the project through registered sale deeds/lease documents, in compliance with MoEF&CC OM dated 07.																									

Details of EDS sought by Ministry	Reply of PP	
<p>and be submitted in compliance to OM dated 07-10-2014, along with supporting documents. The details be updated in PART A, Point-14 also. A Notarized land statement may be submitted duly mentioning land in hectare.</p>	<p>10.2014. A Notarized Land Statement has been prepared and submitted along with supporting documents. The land details have also been duly updated in Part A, Point 14.</p>	
<p>Point 5. PP shall coordinate with SPCB to ensure that the follow-up action mentioned in OM dated 14-01-2025 is complied with submitted for further consideration of the proposal.</p>	<p>The Project Proponent is in active coordination with the Jharkhand State Pollution Control Board (JSPCB) to ensure compliance with the follow-up actions stipulated under OM dated 14.01.2025, including implementation requirements related to GSR 702/703 dated 12.11.2024, as applicable. Necessary steps for compliance, monitoring, and reporting are being undertaken, and confirmation from SPCB shall be submitted once available. Copy of receipt of letter in this regard is submitted.</p>	
<p>Point 6. The project is location in SPA, as per the information submitted in form. The compliance to CEPI guidelines for existing operations and the Action Plan for proposed operations be submitted. (OM dated 31-10-2019 / OM dated 24-10-2019 / OM dated 30-12-2019).</p>	<p>It is submitted that the project is not located in any Severely Polluted Area (SPA) or Critically Polluted Area (CPA), as per the latest CEPI classification issued by CPCB/MoEF&CC.</p>	
<p>Point 7. The project land is observed to be in patches. Hence, PP my upload information on product and raw material transport plan, green belt development plan, information on installation of facilities within each patch.</p>	<p>It is respectfully submitted that the project land is not fragmented into operational patches. All industrial activities are confined to a single, contiguous parcel of land. The remaining parcel is exclusively earmarked for green belt development and does not involve any industrial or utility installations. The proposed expansion comprises the following land allocation: A. 8.239 hectares - Allocated for industrial operations along with integrated green belt development, ensuring a balanced approach between industrial activity and environmental protection. B. 3.194 hectares - Exclusively allocated for green belt development, further reinforcing the Project Proponent's commitment to environmental sustainability and compliance with green cover requirements. A detailed site layout plan clearly depicting all industrial facilities, internal roads, utilities, and designated green belt areas has been prepared and submitted.</p>	

S. N.	Particulars	Details	Remarks
1.	Total land	11.434 ha	<p>Land use: The project is undergoing a significant area expansion, increasing its total area from 5.82 hectares to 11.434 hectares. This expansion involves adding 5.614 hectares of land, which will be utilized as follows:</p> <p>Green Belt Development:</p>

S. N.	Particulars	Details	Remarks
			<p>Development: 3.194 hectares will be dedicated exclusively to green belt development, contributing to environmental sustainability and conservation.</p> <p>Existing Plant Area Expansion: 2.419 hectares will be added to the existing plant area.</p>

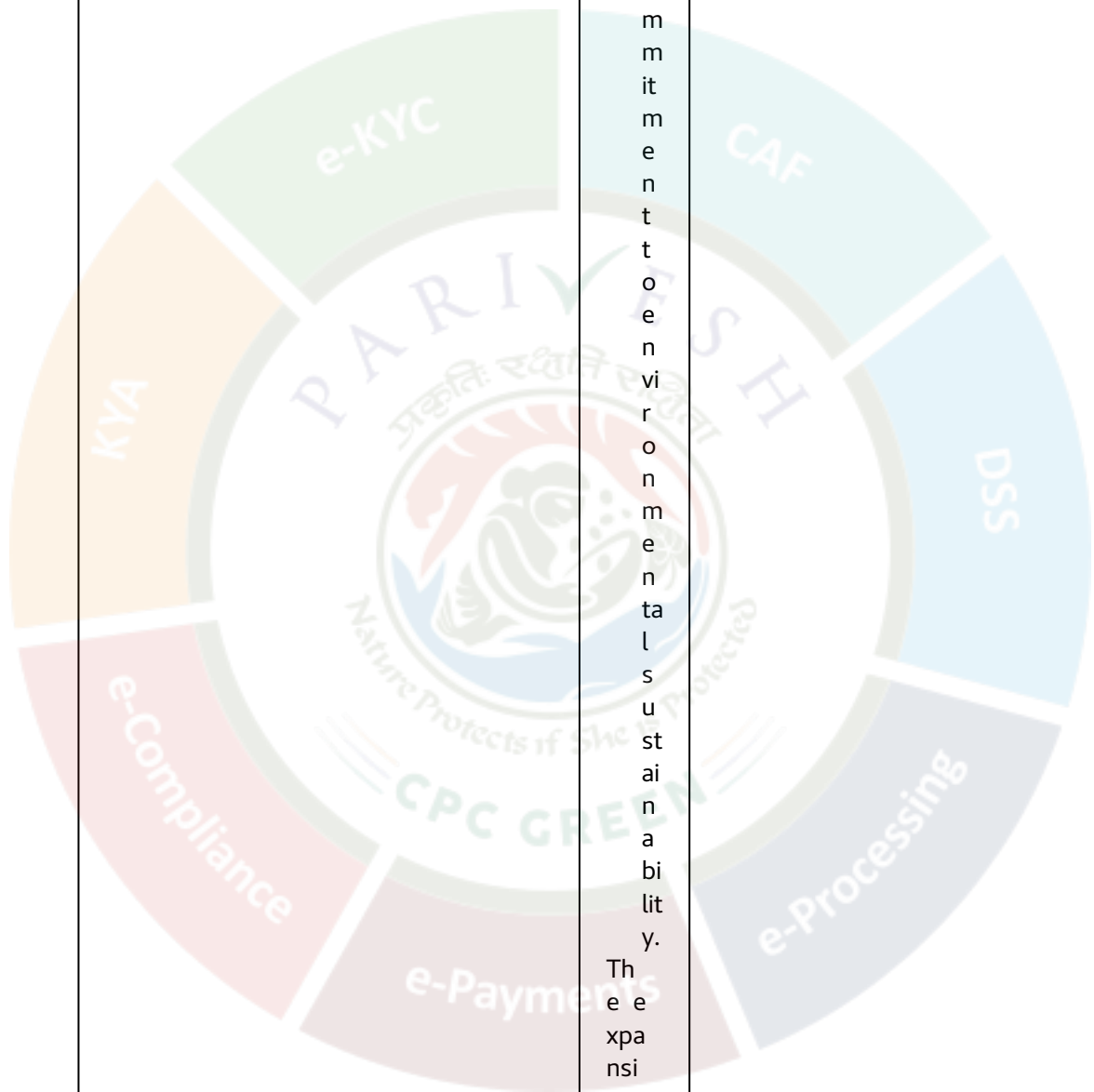
S. N.	Particulars	Details	Remarks
			<p>f 5.82 hectares, enhancing the project's operational capacity.</p> <p>The proposed expansion consists of two sections:</p> <p>a. 8.239 hectares: Designated for both in</p>

S. N.	Particulars	Details	Remarks
			<div>  </div> <p>dustrial operations and green belt development, striking a balance between</p>

S. N.	Particulars	Details	Remarks
			<p>en in d u st ri al g r o w t h a n d e n v i r o n m e n t a l c o n s e r v a t i o n.</p> <p>b. 3. 1 9 4 h e c t a r e s: E x c l u</p>

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S. N.	Particulars	Details	Remarks
			<p>object's commitment to environmental sustainability.</p> <p>The expansion aims to establish a green belt</p>



S. N.	Particulars	Details	Remarks
			<p>covering 41.24% of the total plot area, promoting environmental sustainability and reducing the project's ecological footprint. No forest land and no R&R a</p>

S. N.	Particulars	Details	Remarks						
			re involved in additional land.						
2.	Land acquisition details as per MoE F&C C O. M. dated 7/10/2014		Break up of land and its lease/ LOI/Consent/ Possession details/Land conversion details are submitted.						
3.	Existence of habitation	<table> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> <tr> <td>None</td> <td>-</td> <td>-</td> </tr> </table>	Habitation	Distance	Direction	None	-	-	No R&R is proposed
Habitation	Distance	Direction							
None	-	-							

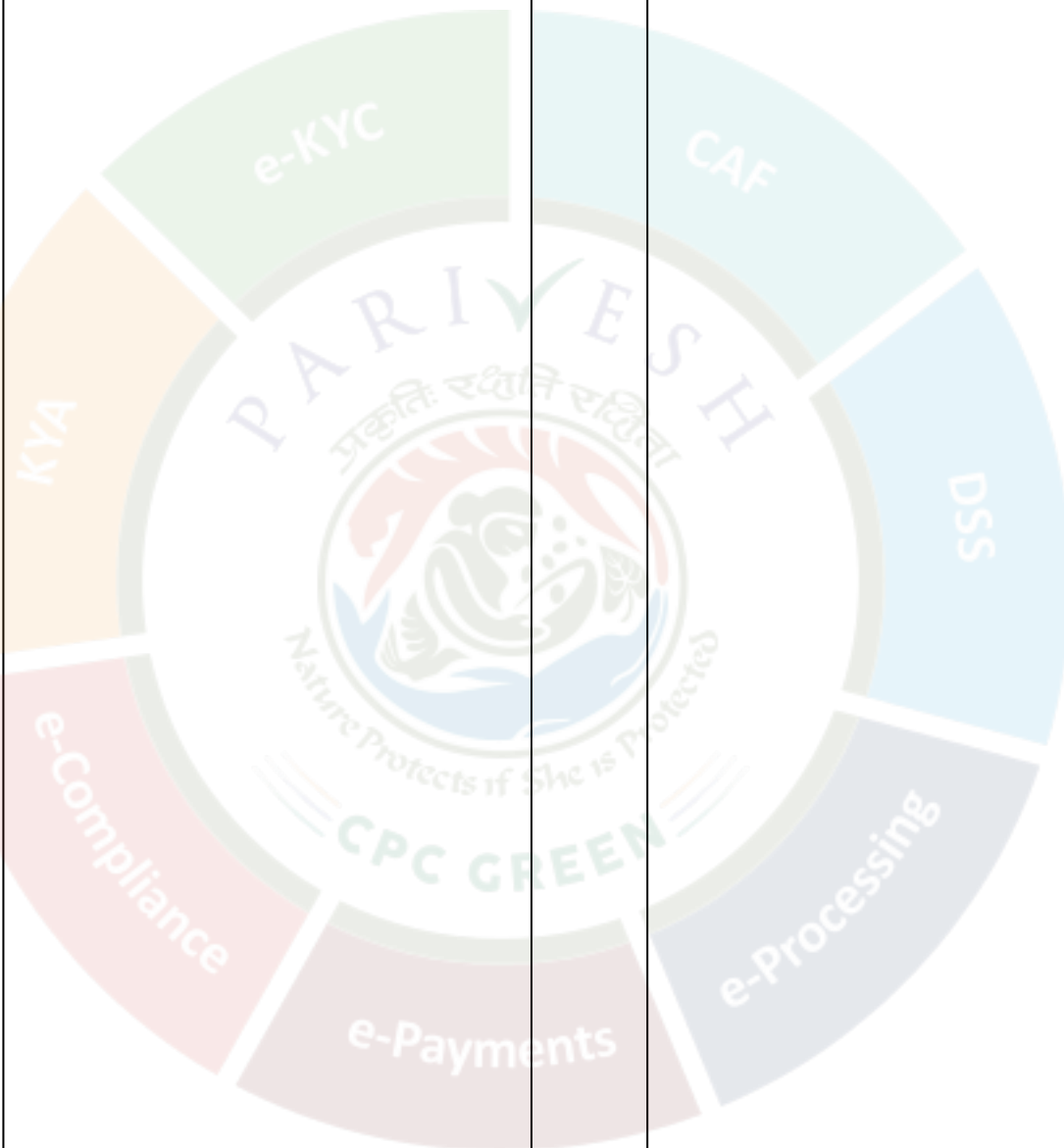
S. N.	Particulars	Details	Remarks																																																															
	on & involvement of R&R, if any.		osed in the Project.																																																															
4.	Latitude and Longitude of all Corners of the project site.	<div>Details of Latitude and Longitude is given below</div> <table><thead><tr><th>S. N.</th><th>Latitude</th><th>Longitude</th></tr></thead><tbody><tr><td>1</td><td>23°38'33.79"N</td><td>85°23'57.86"E</td></tr><tr><td>2</td><td>23°38'32.60"N</td><td>85°23'57.72"E</td></tr><tr><td>3</td><td>23°38'33.13"N</td><td>85°23'58.64"E</td></tr><tr><td>4</td><td>23°38'31.37"N</td><td>85°23'58.43"E</td></tr><tr><td>5</td><td>23°38'30.54"N</td><td>85°23'59.41"E</td></tr><tr><td>6</td><td>23°38'30.95"N</td><td>85°24'0.03"E</td></tr><tr><td>7</td><td>23°38'30.47"N</td><td>85°24'1.49"E</td></tr><tr><td>8</td><td>23°38'29.65"N</td><td>85°24'0.88"E</td></tr><tr><td>9</td><td>23°38'28.89"N</td><td>85°24'1.55"E</td></tr><tr><td>10</td><td>23°38'26.96"N</td><td>85°24'1.36"E</td></tr><tr><td>11</td><td>23°38'27.48"N</td><td>85°23'56.46"E</td></tr><tr><td>12</td><td>23°38'26.13"N</td><td>85°23'56.03"E</td></tr><tr><td>13</td><td>23°38'25.49"N</td><td>85°23'55.67"E</td></tr><tr><td>14</td><td>23°38'26.85"N</td><td>85°23'50.26"E</td></tr><tr><td>15</td><td>23°38'26.51"N</td><td>85°23'49.40"E</td></tr><tr><td>16</td><td>23°38'25.17"N</td><td>85°23'48.94"E</td></tr><tr><td>17</td><td>23°38'25.59"N</td><td>85°23'45.70"E</td></tr><tr><td>18</td><td>23°38'29.14"N</td><td>85°23'46.59"E</td></tr><tr><td>19</td><td>23°38'30.08"N</td><td>85°23'46.33"E</td></tr><tr><td>20</td><td>23°38'31.60"N</td><td>85°23'46.82"E</td></tr></tbody></table>	S. N.	Latitude	Longitude	1	23°38'33.79"N	85°23'57.86"E	2	23°38'32.60"N	85°23'57.72"E	3	23°38'33.13"N	85°23'58.64"E	4	23°38'31.37"N	85°23'58.43"E	5	23°38'30.54"N	85°23'59.41"E	6	23°38'30.95"N	85°24'0.03"E	7	23°38'30.47"N	85°24'1.49"E	8	23°38'29.65"N	85°24'0.88"E	9	23°38'28.89"N	85°24'1.55"E	10	23°38'26.96"N	85°24'1.36"E	11	23°38'27.48"N	85°23'56.46"E	12	23°38'26.13"N	85°23'56.03"E	13	23°38'25.49"N	85°23'55.67"E	14	23°38'26.85"N	85°23'50.26"E	15	23°38'26.51"N	85°23'49.40"E	16	23°38'25.17"N	85°23'48.94"E	17	23°38'25.59"N	85°23'45.70"E	18	23°38'29.14"N	85°23'46.59"E	19	23°38'30.08"N	85°23'46.33"E	20	23°38'31.60"N	85°23'46.82"E	For the details of Latitude and Longitude of all Corners of the project site, pillar coordinated details are shown in the table.
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				E	
		21	23°38'32.97"N	85°23'48.40" E	
		22	23°38'34.42"N	85°23'50.89" E	
		23	23°38'33.05"N	85°23'52.41" E	
		24	23°38'32.42"N	85°23'55.02" E	
		25	23°38'32.79"N	85°23'56.14" E	
		26	23°38'33.57"N	85°23'57.03" E	
		27	23°38'22.23"N	85°23'48.08" E	
		28	23°38'20.70"N	85°23'48.31" E	
		29	23°38'19.31"N	85°23'44.16" E	
		30	23°38'18.94"N	85°23'43.27" E	
		31	23°38'17.53"N	85°23'39.25" E	
		32	23°38'16.95"N	85°23'37.01" E	
		33	23°38'20.65"N	85°23'36.19" E	
		34	23°38'21.10"N	85°23'38.45" E	
		35	23°38'20.89"N	85°23'40.63" E	
		36	23°38'21.76"N	85°23'40.80" E	
		37	23°38'21.86"N	85°23'42.29" E	
		38	23°38'22.15"N	85°23'44.76" E	
		39	23°38'21.62"N	85°23'45.16" E	
		40	23°38'22.07"N	85°23'45.53" E	
5.	Elevation	General elevation of the project site is 338 M above mean sea level			

S. N.	Particulars	Details	Remarks												
	of the project site														
6.	Involvement of Forest Land if any.	<p>Not Applicable. No Forest Land is involved in the project site.</p>	-												
7.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage)	<table><thead><tr><th>Water body</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>Dhobdhab Nala</td><td>10 m</td><td>North</td></tr><tr><td>Damodar River</td><td>1.15 km</td><td>North</td></tr><tr><td>Nalkari Nadi</td><td>7.0 km</td><td>North West</td></tr></tbody></table>	Water body	Distance	Direction	Dhobdhab Nala	10 m	North	Damodar River	1.15 km	North	Nalkari Nadi	7.0 km	North West	Authenticated HFL data of the water body shall be furnished.
Water body	Distance	Direction													
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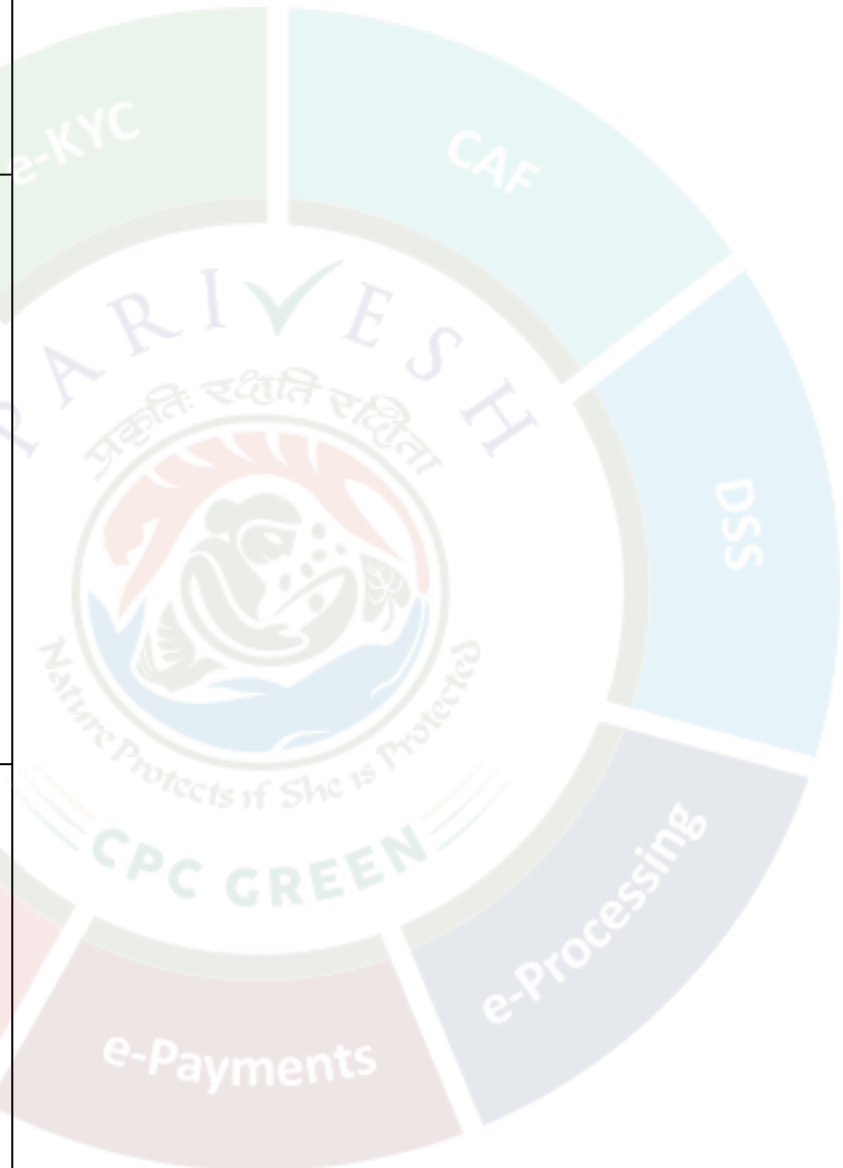
S. N.	Particulars	Details	Remarks																					
	ge, Canal etc.) exist within the project site as well as study area																							
8.	Existence of ESZ/ES/A/national park/wi	<p>There are no National Park, Wildlife Sanctuaries, ESZ etc, within the Study Area.</p> <p>List of Reserved and protected forests:</p> <p>No any reserved Forest is present within the study period (10 km radius), however, list of protected forest is given below.</p> <table><tr><th>Name of the Forest</th><th>Distance</th><th>Direction</th></tr><tr><td>Budka Pahar PF</td><td>7 km</td><td>SE</td></tr><tr><td>Armadag PF</td><td>3 km</td><td>SE</td></tr><tr><td>Jarad PF</td><td>7.40</td><td>SW</td></tr><tr><td>Hariharpur PF</td><td>6.70</td><td>SW</td></tr><tr><td>Ghaghra PF</td><td>5.80</td><td>SW</td></tr><tr><td>Religarha PF</td><td>6 km</td><td>NW</td></tr></table>	Name of the Forest	Distance	Direction	Budka Pahar PF	7 km	SE	Armadag PF	3 km	SE	Jarad PF	7.40	SW	Hariharpur PF	6.70	SW	Ghaghra PF	5.80	SW	Religarha PF	6 km	NW	No any reserved Forest is present within the study period (10 km radius), however, 10 protected for
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S. N.	Particulars	Details			Remarks												
	ldl ife sa nc tu ar y/ bi os p he re re se rv e/ ti ge r r es er v e/ el ep ha nt re se rv e et c. if an y wi th in th e st u dy ar ea	<table><tr><td>Kurkuta PF</td><td>7.50 km</td><td>NW</td></tr><tr><td>Potanga PF</td><td>9.20 km</td><td>SW</td></tr><tr><td>Husir PF</td><td>9 km</td><td>N</td></tr><tr><td>Bundu PF</td><td>4 km</td><td>N</td></tr></table>	Kurkuta PF	7.50 km	NW	Potanga PF	9.20 km	SW	Husir PF	9 km	N	Bundu PF	4 km	N			ests are p resen t in t he st udy a rea.
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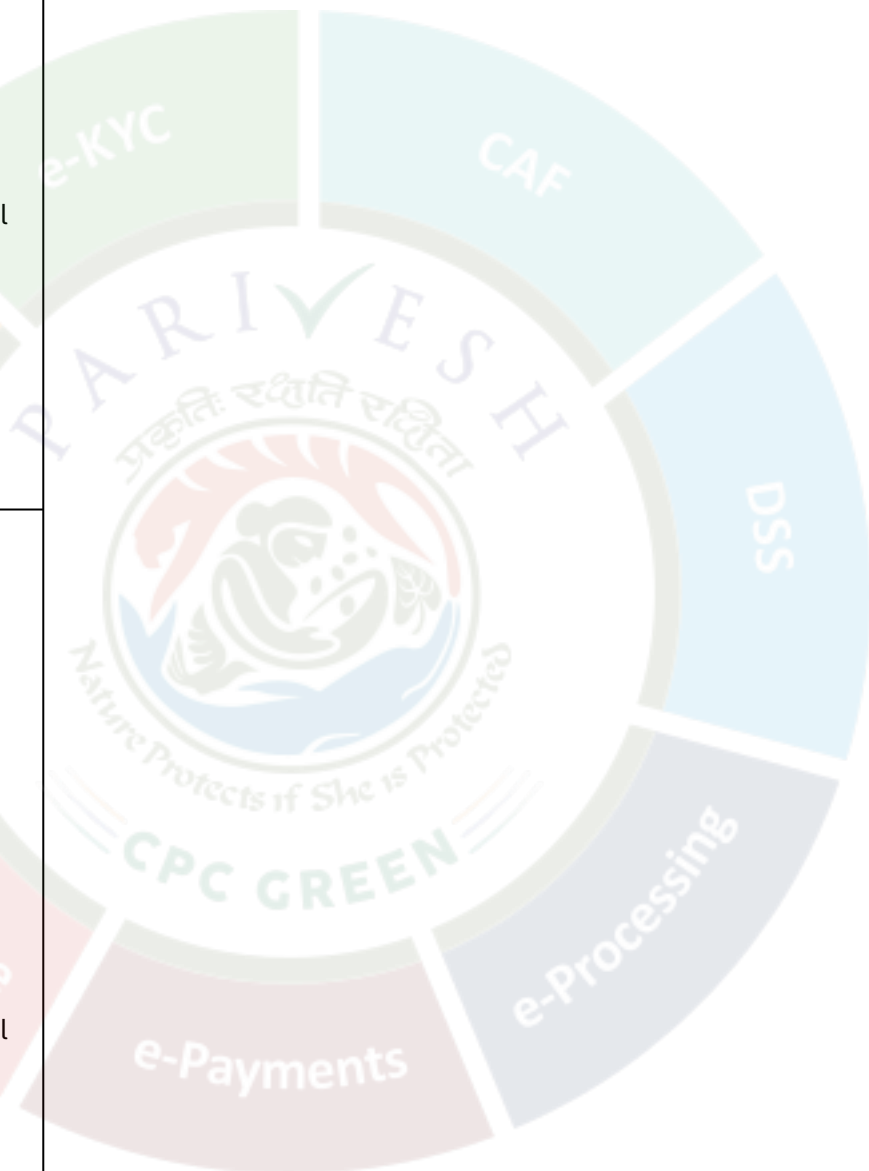


S. N.	Facili	Units	Impleme	Aspe	Prod
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1	S p o n g e r o n P l a n t	4 x 1 0 0 T P D R I K i n s	Com mi ssi on ed	A s p e r E C d a t e d 2 4. 0 1. 2 0 2 0	120,000 TPA
2	C a p t i v e P o w e r P l a n t (C P P)	1 6 M W C P P b a s e d o n 4 x 9 T P H W R B &	Un d e r e s t a b l i s h m e n t	A s p e r E C d a t e d 2 4. 0 1. 2 0 2 0	Nil



		5 0 T P H A F B C;			
3	B r i q u e t e P l a n t	B r i q u e t e P l a n t 7 8 5 0 T P A	N o t C o m m i s s i o n e d	A s p e r E C d a t e d 2 4. 0 1. 2 0 2 0	N i l
5	S t e l M e l t i n g S h o p (S M S) w i t h B i l l e t C a s t e r	2 x 1 2 T I n d u c t i o n F u r n a c e s w i t h 2 - s t r a n d B i l l e t C a s t e r;	N o t C o m m i s s i o n e d	A s p e r E C d a t e d 2 4. 0 1. 2 0 2 0	N i l



S. N.	Plant Equipment/ Facility	Existing facilities as per EC F. No. J-11011/417/2017- IA.11(1), dated 24.01.2020								Proposed Units	Final (Existing + Proposed)		Remarks	
		Total (A+B)		Implemented (A)		Un-Implemented (B)		As per CTO						
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration		Capacity
1.	Sponge Iron Unit	4X 100 TPD DRILN	112 0000 TPA	4X 100 TPD DRILN	1120 000 TPA	Nil	Nil	4X 100 TPD DRILN	112 0000 TPA	2x1 00 DRI Kiln.	60,0 00 TPA	6x 100 DRI Kiln	1,8 0,00 0 TPA	
2.	Steel Melting Shop (SMS)	2X 12 T Induction Furnace	72, 000 TPA	Nil	Nil	2X 12 T Induction Furnace	72,0 00 TPA	Nil	Nil	Nil	Nil	Nil	Nil	Dropped
	Proposed Submerged Electric Arc Furnace-	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	SAF-12 MVA* 2	64,0 00 TPA	SAF-12 MVA* 2	64,0 00 TPA	

S. N.	Plant Equipment/ Facility	Existing facilities as per EC F. No. J-11011/417/2017- IA.11(1), dated 24.01.2020								Proposed Units		Final (Existing + Proposed)		Remarks
		Total (A+B)		Implemented (A)		Un-Implemented (B)		As per CTO						
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	
3.	Captive Power Plant-	16 MW (8 MW W HR B+ 8 MW AF B C)	16 MW	Nil	Nil	16 MW (8 MW W HR B+ 8 MW AF B C)	16 MW	Nil	Nil	Addition of 4 MW W HR B	4 MW	20 MW (12 MW W HR B+ 8 MW AF B C)	20 MW	
4.	Briquette Plant-	26 TPD	-	Nil	Nil	26 TPD	-	Nil	Nil	Nil	Nil	Nil	Nil	Dropped
S. N.	Raw Material	Quantity required per annum			Source	Distance from site (Kms)	Mode of Transportation							
		Existing	Expansion	Total										
1	Sponge Iron Non-Coking	192000 TPA 156000 TPA 3600 TPA	96000 TPA 78000 TPA 1800 TPA	288000 TPA 234000 TPA 5400 TPA	Open Market	~350 Km ~100 Km ~700 Km	From mines in Odisha-by rail rake & then by road From various mines of CCL and e-auction – by Rail rake and/or road							

S. N.	Raw Material	Quantity required per annum			Source	Distance from site (Kms)	Mode of Transportation																														
		Existing	Expansion	Total																																	
							From Uttar Pradesh-by road																														
2	<div>For Alloys/Pig Iron in SAF</div> <div><div>· Steam Coal</div><div>· Electrode Paste</div><div>· Limestone</div><div>· Charcoal</div><div>· Mill Scale</div></div>	<div>0.0 TPA</div> <div>0.0 TPA</div> <div>0.0 TPA</div> <div>0.0 TPA</div> <div>0.0 TPA</div> <div>0.0 TPA</div> <div>0.0 TPA</div>	<div>92160 TPA</div> <div>7300 TPA</div> <div>25600 TPA</div> <div>19200 TPA</div> <div>12800 TPA</div> <div>1110 TPA</div> <div>19200 TPA</div> <div>25900 TPA</div> <div>39000 TPA</div> <div>70400 TPA</div>	<div>92160 TPA</div> <div>7300 TPA</div> <div>25600 TPA</div> <div>19200 TPA</div> <div>12800 TPA</div> <div>1110 TPA</div> <div>19200 TPA</div> <div>25900 TPA</div> <div>39000 TPA</div> <div>70400 TPA</div>	<div>MOIL, OM</div> <div>Local market</div> <div>Local market</div> <div>Local market</div> <div>From Uttar Pradesh-by road</div> <div>From UP by road</div> <div>From UP by road</div> <div>Local market</div> <div>Local market</div> <div>From mines in Odisha-by rail</div> <div>rack & then by road</div>	<div>~350 Km</div> <div>~200 Km</div> <div>~100 Km</div> <div>~100 Km</div> <div>~700 Km</div> <div>~350 Km</div> <div>~700 Km</div> <div>~100 Km</div> <div>~70 Km</div> <div>~350 Km</div>	By Rail or by Road																														
Period		The baseline study was conducted during the period 1st October 2024 to 31st December 2024.					Remarks																														
AAQ parameters at 08 no. of Locations (min and max)		<div>· PM_{2.5} = 32.1µg/m³ to 52.4µg/m³;</div> <div>· PM₁₀ = 63.6µg/m³ to 95.7µg/m³;</div> <div>· SO₂ = 32.1µg/m³ to 52.4µg/m³;</div> <div>· Nox = 13.8µg/m³ to 29.2µg/m³;</div> <div>· CO = 0.27mg/m³ to 0.93mg/m³</div>					-																														
Incremental GLC level		<div>The details of the Incremental GLC level are given below</div> <table><thead><tr><th>S.N.</th><th>Parameter</th><th>Unit</th><th>GLC Value</th><th>Distance, m</th><th>Direction</th></tr></thead><tbody><tr><td colspan="6">Emission from Existing Stacks under Controlled Scenario</td></tr><tr><td>1</td><td>PM₁₀</td><td>µg/m³</td><td>8.84</td><td>485</td><td>South East</td></tr><tr><td>2</td><td>SO₂</td><td>µg/m³</td><td>1.74</td><td>679</td><td>East</td></tr><tr><td>3</td><td>NOx</td><td>µg/m³</td><td>0.416</td><td>679</td><td>East</td></tr></tbody></table>					S.N.	Parameter	Unit	GLC Value	Distance, m	Direction	Emission from Existing Stacks under Controlled Scenario						1	PM ₁₀	µg/m ³	8.84	485	South East	2	SO ₂	µg/m ³	1.74	679	East	3	NOx	µg/m ³	0.416	679	East	-
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Ground water quality at 08 no. locations	· Heavy metals (Iron): 1.01 to 1.28mg/l ,	All the recorded values were within acceptable limits.																																																																								
Surface water quality at 05 no. locations	· pH: 7.6 to 8.21 , · DO: 4.7 to 7.80mg/l , · BOD: 2.6 to 5.8mg/l , · COD: 22.5 to 30.4mg/l ,	All the recorded values were within acceptable limits.																																																																								
Noise levels Leq (Day and Night)	43.6 dB(A) to 72.5 dB(A) for the day time, and 32.1 dB(A) to 66.3 dB(A) for the Night time.	All the recorded values were within acceptable limits.																																																																								
Traffic assessment study findings	· Traffic study has been conducted at SH-2 which is approximately 06 km (distance) from the plant site. · Transportation of raw material, fuel & finished product will be done 100 % by road. · Existing PCU is 1250 PCU/hr on SH-2 and existing level of service (LOS) is: <table><tr><th>Road</th><th>V (Volume in PCU/hr)</th><th>C (Capacity in PCU/hr)</th><th>Existing V/C Ratio</th><th>LOS</th></tr><tr><td>SH-2</td><td>618.02</td><td>1250</td><td>0.49</td><td>C</td></tr></table> · PCU load after proposed project will be 618.02 (Existing) + 37 (Additional) PCU/hr and level of service (LOS) will be: <table><tr><th>Road</th><th>Increased PCU's- State Highway</th><th>V (Volume in PCU/hr)</th><th>C (capacity in PCU/hr)</th><th>Modified V/C Ratio</th><th>LOS</th></tr><tr><td>SH-2</td><td>37x100%= 37</td><td>655</td><td>1250</td><td>0.52</td><td>C</td></tr></table> * Note: Capacity as per IRC 64-1990 Guide line for capacity for roads. Conclusion: The level of service will	Road	V (Volume in PCU/hr)	C (Capacity in PCU/hr)	Existing V/C Ratio	LOS	SH-2	618.02	1250	0.49	C	Road	Increased PCU's- State Highway	V (Volume in PCU/hr)	C (capacity in PCU/hr)	Modified V/C Ratio	LOS	SH-2	37x100%= 37	655	1250	0.52	C																																																			
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	Good/Average/Fair after including additional traffic due to proposed project.						
Flora and fauna	As per the Wildlife (Protection) Act, 1972, and its recent amendment in December 2022, eight (8) species of schedule-I have been recorded from the different parts of the study area.					For all the documented wildlife species, a site-specific wildlife conservation plan has been prepared and submitted to the DFO (Wildlife), Ramgarh, Jharkhand.	
	S.N.	Common Name	Scientific Name	Family	Schedule Status as per WP A-1972 & 2022		
	Mammals						
	1	Elephas maximus	Asiatic Elephant / Hathigiri	Elephantidae	I		EN
	2	Felis chaus	Jungle cat	Felidae	I		LC

3	<i>Urva edwardsi</i>	Indian Grey Mongoose	Herpestidae	I	LC
4	<i>Hyaena hyaena</i>	Striped hyena	Leporidae	I	NT
5	<i>Vulpes bengalensis</i>	Indian fox	Canidae	I	LC
Reptiles and Amphibians					
6	<i>Ptyas mucosa</i>	Rat Snake/Dhaman	Colubridae	I	LC
7	<i>Python molurus</i>	Azgar / Python	Pythonidae	I	NT

		8	<i>Varanus bengalensis</i>	o n In di a m o ni t or s li z ar d/ G o h	Varanidae	I	N T	
Type of Waste	Quantity in TPA	Disposal & Management						
Sponge Iron Plant								
Dolo-Char	38,572 TPA	Dolo-Char will be used in AFBC Boiler in house. Storage in covered, impervious sheds to avoid air/dust pollution.						
Wet scrapper s ludge	3516 TPA	Dewatering and drying. Reuse in road construction, low-lying area filling,						
Accretion	8,790 TPA	Crushing and metal recovery, followed by reuse in road sub-base material. Remaining inert to be landfilled or used in construction material						
Power Plant								
Fly-ash from WHRBs	21,000	Management (as per Fly Ash Notification, 2021): Shall be sold to Fly ash Brick /Blocks making company and Cement Plant						
Fly-ash from A FBC Boilers	20,400	Shall be sold to Fly ash Brick /Blocks making company and Cement Plant						
Bottom Ash	5,100	Given free of cost to nearby Brick Kilns for use in Kiln as fuel						
Coal Fines from Coal handling area	4,000	Use in AFBC Boiler						
Submerged Electric Arc Furnace								
Slag	80254.8 T PA	If non-hazardous (as per TCLP): Used in road construction, cement clinker production, or aggregate substitute. If hazardous: Sent to TSDF or slag processing units with proper authorization.						

Type of Waste	Quantity in TPA	Disposal & Management
Dust	326.964 TPA	Collected via bag filters and used in sinter plant or brick making (after characterization).
Domestic	13,500kg per Annum or ~37 kg/day	Management (as per Solid Waste Management Rules, 2016): · Source segregation into biodegradable and non-biodegradable. · Biodegradable: Composting. Non-biodegradable: Recyclables to be sent to authorized recyclers; rejects to municipal landfill
DG set & Machinery Used Oil (Schedule I of service station/other and send to Tyre manufacturers HOWM Rules, 2016)	1TPA	Storage -Leak-proof containers to prevent spills and contamination Used oil should be sent to authorized recyclers.
Details of advertisement given	To ensure widespread awareness, notifications were published in prominent local newspapers, namely Prabhat Khabar (Hindi) and The Hindustan Times (English), on April 24, 2025. Additionally, public announcements were made through loudspeakers.	
Date of public consultation	24 May 2025.	
Venue	The hearing took place at the predetermined venue, Rajkiye Madhya Vidyalaya, Bhadani Nagar, Ramgarh.	
Presiding Officer	Additional Collector, Revenue Department nominated by the Deputy Commissioner, Ramgarh.	
Major issues raised	<ul style="list-style-type: none"> · Employment & Livelihood · Environmental Concerns (Air Pollution & Agriculture) · Public Health & Safety · CSR & Social Development · Infrastructure & Basic Amenities · Public Hearing Process & Participation 	

Action Plan as per OM dated 30.09.2020

S. N.	Area of Concern	Action Taken	Budget (INR)	1 st Year	2 nd Year	3 rd Year
1	Employment Opportunities for Local Youth	§ Conduct skill assessment survey in Lapanga, (Mahatola and Chaukiyatand), Saki and Hehal § Provide vocational training (e.g.,	§ Vocational /Skill based Training of (200 youth, @Rs. 18,000 each candidate): Rs. 3,600,000 § Total: Rs.36,00,000	Rs 12,60,000/- for a batch of 70 students	Rs 11,70,000/- for a batch of 65 students	Rs 11,70,000/- for a batch of 65 students

S. N.	Area of Concern	Action Taken	Budget (INR)	1 st Year	2 nd Year	3 rd Year
		welding, electrical work, machine operation) with certified ITIs. § Prioritize local hiring for non-technical and semi-skilled roles post-expansion.				
2	Support for Education and Sports Activities (Library, Sports)	§ - Community library in Lapanga with e-learning modules and computers. § Annual sports programs (cricket, football) with coaching, equipment, and tournaments.	§ Library setup: Rs. 15,00,000 § Sports programs: Rs.5,00,000. § Total: Rs. 20,00,000.	Rs. 15,00,000 Lakhs for Library setup. Rs. 200,000 for sports program	Rs. 200,000/- for Sports Program	Rs.100,000 for Sports Program
3	Enhanced Environmental Protection & Pollution Control	§ Upgrade existing bag filters and ESPs to reduce PM emissions. § Increase water sprinkling to thrice daily on transport routes with automated sprinklers. - Install real-time air quality monitoring (PM2.5, PM10). § Plant 1,500 native trees as a green buffer. § Conduct quarterly soil and water testing to monitor pollution impact on agriculture.	§ Covered under EMP Budget	§	§	§
4	Camps for Agriculture Improvement and Veterinary Camps	§ Organize camps to aware and train farmers on Good agricultural Practices (GAP). § Conduct veterinary camps for livestock	§ Total: Rs.15,00,000	Rs. 5,00,000/- Lakhs		

S. N.	Area of Concern	Action Taken	Budget (INR)	1 st Year	2 nd Year	3 rd Year
		estock health checkups and conduct vaccination drive for livestock in the villages against different diseases.				
5	Health Camps & Ambulance Services	§ Donation of an ambulance for Lapanga Gram Panchayat. § Organize quarterly health camps focusing on respiratory ailments, with spirometry tests and mobile X-ray units.	§ Ambulance: Rs.13,00,000 § Health camps (2/year, Rs.1,00,000 each): Rs.2,00,000/year § Total: Rs.16,00,000			
7	Solar Street Lights	§ Install 100 solar-powered street lights (10W LED, lithium-ion batteries with Pole) in Lapanga, Chaingara, Hehal and Sirka villages.	§ Solar lights (100 units, Rs.25,000 each): Total: Rs. 25,00,000	Rs 875000/- for installation of 35 Solar Street Lights		
	Total (Rs)					
Details of EMP budget as per previous EC letter				Proposed EMP budget as per planned expansion		
S. N.	Item Description	Existing Capital investment (Rs Lakhs)	Recurring Cost (Rs Lakhs)	Item Description	Capital investment (Rs Lakhs)	Recurring Cost (Rs Lakhs)
1	Air Pollution Control Measures	525.0	40.0	Air Pollution Control Measures	550	50
2	Water Pollution Control Measures	25.0	4.0	Water Pollution Control Measures	25	11
3	Noise Pollution Control Measures	2.0	Included in point 1 above	Noise Pollution Control Measures	12	04

Details of EMP budget as per previous EC letter				Proposed EMP budget as per planned expansion		
S. N.	Item Description	Existing Capital investment (Rs Lakhs)	Recurring Cost (Rs Lakhs)	Item Description	Capital investment (Rs Lakhs)	Recurring Cost (Rs Lakhs)
4	Greenbelt Development	13.5	5.0	Greenbelt Development	20	06
5	Rain Water Harvesting	8.0	2.0	Waste Management	49	22
6	Fire Fighting and Safety measures	20.0	10.0	Address to the public consultation	112	0
7	Address to the public consultation	95	0	Need based assessment	36	0
	Total	688.5	61	Total	804	93
S.N.	Non-compliance details	Observation of RO (abridged)	Re-assessment by RO / Response by PP			
1	Partially complied	PP has stated that it has submitted an application to MOEFCC for EC corrigendum for correcting name.	The corrigendum to the Environmental Clearance has now been formally obtained from MoEF&CC. The EC (Corrigendum) has been issued vide File No. J-11011/417/2017-IA.II(I) dated 25.08.2025.			
2	Partially complied	The PP has stated that dolochar is being stored within the premises for use in the captive power plant, once it is complete, and which is currently still under construction.	The installation works of the captive power plant have been expedited on priority. The plant is now in an advanced stage of implementation and is expected to be fully commissioned within six (6) months. Upon commissioning, the entire quantity of dolochar will be scientifically utilized as intended, ensuring proper resource utilization and compliance with EC conditions.			
3	Partially complied	Plantation is yet to take the form of green belt.	A dense plantation program has already been undertaken both within the plant premises and on nearby available land. Native and fast-growing species have been planted with proper spacing and maintenance. The plantation is being regularly nurtured, and it is expected that within the next couple of years, it will mature into a well-defined, dense green belt, fulfilling the intent of EC conditions.			
4	Partially complied	In Environment Audit	All corrective measures recommended in the Third			

S.N.	Non-compliance details	Observation of RO (abridged)	Re-assessment by RO / Response by PP
	Complied	Report, a list of corrective measures has been proposed by the third party upon the PP.	<p>d-Party Environmental Audit Report as well as those highlighted in the Monitoring Report dated 30.10.2024 have been fully implemented. Necessary operational, environmental and safety improvements have been incorporated to strengthen overall environmental management.</p> <p>The latest Environmental Audit Report, along with documentary evidence and records of corrective actions taken, shall be submitted along with the forthcoming EC compliance report for review and record.</p>
5	Partially complied	CER Report submitted is incomplete as it contains only CSR.	The company has been actively involved in comprehensive Community Environment Responsibility (CER) initiatives, including healthcare support, drinking water facilities, plantation activities, road maintenance, purchase of ambulance, installation of solar street lights, construction of toilets, and distribution of ceiling fans, speakers, shelves, etc., in nearby schools. The need to further structure and expand CER-specific interventions is acknowledged, and the same is being strengthened.
6	Partially complied	Other Parameters as desired in EC gen. cond. II (iii) such as PM _{2.5} , SO ₂ , NO _x , are not being monitored in CAAQMS. Nil CAAQMS station have been installed outside project premises.	At present, SPM, PM ₁₀ and SO _x are being continuously monitored through the installed CAAQMS. The monitored data sheets are submitted. Further, in compliance with EC General Condition II (iii), the company commits to installation of an additional ambient CAAQMS station outside the project premises for monitoring of PM _{2.5} , SO ₂ and NO _x immediately after obtaining the required approvals and permissions, as the proposed location lies outside the project boundary. The installation will be taken up at the earliest possible time thereafter, in consultation with the concerned regulatory authorities.
7	Partially complied	Manually monitored data for stacks has not been submitted.	The manual stack monitoring data for stacks have now been compiled and are submitted for verification and record.
8	Partially complied	STP is being installed as stated and this was observed to be under construction during monitoring.	Installation of the Sewage Treatment Plant (STP) is in progress and is planned to be completed within the next two (2) months. Upon commissioning, treated water will be reused within the premises, ensuring zero discharge and improved water management.
9	Partially complied	PP has initiated feasibility study for rooftop solar panels as stated.	In view of the proposed project expansion, the company has planned installation of rooftop solar panels of appropriate capacity during the expansion.

S.N.	Non-compliance details	Observation of RO (abridged)	Re-assessment by RO / Response by PP	
		ed. But roof top solar panel are yet to be installed.	phase. The installation is targeted to be completed within the next twelve (12) months, reinforcing the company's commitment towards renewable energy adoption.	
10	Partially complied	PP have stated that Heat Stress Analysis for workers has been planned in future.	Heat Stress Analysis for workers has been planned and will be carried out soon positively by 30/01/2026. In the interim, preventive and protective occupational health measures such as provision of adequate drinking water, shaded rest areas, regulated work-rest cycles, ventilation improvement and mandatory use of PPE are being implemented to safeguard worker health. The Heat Stress Analysis report shall be submitted upon completion.	
11	Partially complied	PP has submitted incomplete CREP compliance report. The CREP Compliance report submitted mentions only CSR.	The company has been actively involved in comprehensive Community Environment Responsibility (CER) initiatives, including healthcare support, drinking water facilities, plantation activities, road maintenance, purchase of ambulance, installation of solar street lights, construction of toilets, and distribution of ceiling fans, speakers, shelves, etc., in nearby schools. The need to further structure and expand CER-specific interventions is acknowledged, and the same is being strengthened. Supporting documents are enclosed a	
12	Not Complied	PP has yet not created its website to upload EC and other reports	At present, all EC compliance reports and monitored data are regularly uploaded on the Parivesh Portal of MoEF&CC, ensuring transparency and public access as per statutory requirements. The company has also decided to develop its official website within the next two (2) months, where EC letters, compliance status and monitoring data will be regularly updated.	
S.No.	MoEFCC Circular/OM			Applicability/Compliance Status
	Date	Circular Number	Short Description	
1.	08/06/2022	IA3-22/10/2022-IA.III [E 177258]	Requirement and validity of Certified Compliance Report (CCR) issued by the IROs of MoEF&CC/MS of SP CBs/ ROs of CPCB-reg.	Complied. The CCR was issued by the IRO, MoEF&CC Ranchi vide letter dated 18.11.2024. A Review Report on the Action Taken Report (ATR) was subsequently received on 01.12.2025.
2.	07/10/2014 & 20/02/2025	22-76/2014-IA.III	Status of land acquisition w.r.t. project site while considering the case EC under EIA	Complied. The Project Proponent (PP) has acquired 11.434 ha of land through registered sale deeds/lease documents. A Notarized Land St

S. No.	MoEFCC Circular/OM			Applicability/Compliance Status
	Date	Circular Number	Short Description	
			Notification, 2006.	Statement has been submitted.
3.	14/02/2022	22-39/2020-IA.III	Guidelines for siting industries which are in close proximity with the River - reg.	The Damodar River is ~1.15 km North of the site. The Dhobdhab Nala, a distributary stream of the Damodar River, flows in a south-eastern direction just outside the project boundary (~10 m)
4.	09/09/2011 & its subsequent amendments	J-11013/41/2006-IA.II(I)	Consideration of Projects for grant of environmental clearance under EIA Notification 2006 which involve forestland - further clarification-regarding	Not Applicable. Entire project area is Non-forest land.
5.	24/12/2010	J-11013/41/ 2006-IA.II(I)	Consideration of Integrated and Inter-linked projects- Procedure	Not Applicable. There is no Interlinked/ Integrated project.
6.	17/05/2022	FC-11/119/2020-FC	Clarification on Requirement of Various Environmental and Forest Clearances for Project/Activity in Eco-Sensitive Zone and Other Such Areas outside Protected Area - regarding.	Not Applicable. There is <u>no</u> National Park, ESZ, ESA, Wildlife Sanctuary, Elephant corridor, Tiger Reserve, Biosphere Reserve <u>within 10 Km radius</u> of the project.
7.	31/10/2019, 30/12/2019 & 05/07/2022.	22-23/2018-IA.III (Pt)	Compliance of Hon'ble NGT order dated 19.08.2019 (published on 23.08.2019) in O. A. No. 1038 2018 - reg. - Critically Polluted Area/Severely Polluted a. whether project located in CPA/SPA b. Distance of project from CPA/SPA c. whether Additional environmental safeguards have been proposed	Not Applicable. The project site is not located in CPA/SPA/OPA etc.
8.	08/06/2022	IA3-22/10/2022-IA.III [E 177258]	Standardizing the validity of baseline data	Complied. Baseline data was collected from 1

S. N o.	MoEFCC Circular/OM			Applicability/Compliance Status
	Date	Circular Number	Short Description	
			and public consultation reports for submission of proposal within the validity period of Terms of Reference (ToR) under the provisions of EIA Notification, 2006-reg.	st October 2024 to 31st December 2024 (Post-Monsoon season). The data is within the permissible 3-year validity period for the submission of the Final EIA report.
9.	30/09/2020 & 25/02/2021	22-65/2017-IA.III	Deliberation on the commitments made by project proponent and requirements to address the concerns raised during the public consultation reg.	Complied. The Public Hearing was conducted on 24.05.2025 at Rajkiya Madhya Vidyalaya, Bhadani Nagar, Ramgarh. The proceedings and commitments made during the PH are incorporated in the Final EIA.
10.	30/09/2011	J-11013/77/2004-IA-II(I)	Accreditation of EIA Consultant by Quality Council of India (QCI) / National Accreditation Board of Education and Training (NABET)	Complied. M/s Rian Enviro Pvt. Ltd. NABET Registered List of Accredited Consultant Organizations/ NABET/EIA/24-27/RA 0368 valid up to 11.09.2027)
Sn	Clause-9, Chapter 3 (G.S.R 84(E) & 85(E))			Compliance
1.	Restrictions on establishing an industrial plant based on technological and scientific developments to protect sensitive areas like national parks, sanctuaries, wetlands, and archaeological monuments.			Complied There are no National Parks, Sanctuaries, wetlands and archeological monuments within 10 Km. radius of the plant site.
2.	Industrial plant must comply with criteria set by Central Government, State Government, or Union Territory Administration.			Noted for compliance
3.	While establishing an industrial plant, the following minimum distance shall be maintained:			
3(a)	From the nearest boundary of surface water body (flood plain/HFL/Red line) as per revenue records in case of industrial plant of:			
	3(a) (i): Red category, Beyond 500 Metres			The Damodar River is located approx. 1.15 km North of the site. The Dhobdhab Nala, a distributary stream of the Damodar River, flows in a south-eastern direction just out

Sn	Clause-9, Chapter 3 (G.S.R 84(E) & 85(E))	Compliance
		side the project boundary (~10 m) A NOC from the Water Resources Department is under process for the nearby seasonal Dhobdhab nallah
3(b)	From settlements, educational institutions, worship places, archaeological monuments, national parks, reserve forests, heritage sites, in case of industrial plant of:	
	Settlement	Chokiya Tand is the nearest habitation at 0.18 km. Note: The plant is an expansion of an existing unit established in 2005
	Educational Institutions	None within 500 m Nearest School/College is: Gyan Jyoti Kendra School, Chikor, Approx. 2.54 Km towards SW direction.
	Worship Places	None within 500 m Nearest place of Worship is · Chaingada Temple is approx. 1.50 km NW
	Archaeological monuments	None within 500 m
	National Parks	None within 500 m
	Reserve Forests	None within 500 m
	Heritage Sites	None within 500 m
3(c)	The State Board shall ensure compliance with all applicable laws, rules, regulations, and notifications	-
3(d)	Natural or storm drains passing through the industrial plant location shall not be disturbed.	There are no natural or storm water drains passing through the proposed plant location. The Dhobdhab Nala, a distributary stream of the Damodar River, flows in a south-eastern direction just outside the project boundary (~10 m) and will remain undisturbed.

Written submission by the PP:

The land for the proposed expansion project belongs to M/s Sri Venkatesh Iron & Alloys (India) Limited. The project involves a substantial area expansion, wherein the total plot area is being increased from 5.82 hectares to 11.434 hectares, by addition of 5.614 hectares.

The total plant area of the project, including existing (Part A) and proposed expansion (Part B), is 11.433 hectares (114,330 sqm). Out of this, 6.5794 hectares (65,794 sqm) is utilized for industrial facilities, utilities, and allied infrastructure. A cumulative area of 4.8536 hectares (48,536 sqm) is earmarked for

green belt development, accounting for 42.45% of the total plant area, which is significantly higher than the prescribed minimum requirement.

In Part A (existing plant area), the total land area is 8.239 hectares, of which 2.1387 hectares (25.95%) is developed as green belt, while 6.1003 hectares is occupied by industrial facilities and other uses.

In Part B (proposed expansion area), the total area is 3.194 hectares, with 2.7149 hectares (85%) dedicated to green belt development and 0.4791 hectares utilized for industrial and associated activities.

The proposed expansion project will develop and maintain a green belt over 42.46% of the total plot area, which is significantly higher than the minimum requirement of 25% stipulated under the MoEF&CC OM on Revised Green Belt Criteria.

3.6.3. Deliberations by the committee in previous meetings

N/A

3.6.4. Deliberations by the EAC in current meetings

Deliberations by the Committee

1. The instant proposal is for expansion in production of sponge iron from 1,20,000 TPA to 1,80,000 TPA by adding of 2x100 TPD DRI unit and change in Technology from Induction Furnaces to Submerged Arc Furnaces (SAF) (12MVA*2) for the production of Fe-Si/ Fe-Mn/ Si-Mn/ Pig Iron- 64,000 TPA and additional 4 MW CPP (WHRB).
2. The existing project established its existing sponge iron plant in 2005 with a capacity of 400 TPD (4 × 100 TPD kilns) after obtaining CTE from the Jharkhand State Pollution Control Board vide Ref. No. N-432 dated 16.07.2005. Further, Environmental Clearance was obtained vide F. No. J-11011/417/2017-IA.II(I) dated 24.01.2020 for expansion by installation of induction furnaces, billet caster, captive power plant, and briquette plant. The company presently holds a valid CTO from JSPCB vide Ref. No. JSPCB/HO/RNC/CTO/17469793/2023/2121 dated 27.12.2023 for the same capacity
3. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
4. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
5. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
6. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
7. The Committee noted that the project is an expansion proposal and ToR to the project was granted before the notification G.S.R 85(E) dated 30th January, 2025. Accordingly, it reviewed the mitigation measures proposed by the PP w.r.t. the proposed site and nearby sensitive receptors, and found the same as adequate. The EAC also reviewed the compliance statement submitted by the project proponent regarding aspects such as land acquisition status / presence of streams or nallahs within the site / validity of baseline data / validity of the Certified Compliance Report / validity of the Public Hearing (PH), among other relevant factors. As the proposal is for expansion of existing project, upon examination, the Committee found the submission satisfactory for further appraisal of the proposal.

8. PP submitted that the total area is 11.434 ha (Existing-5.82 ha & Additional-5.641) is completely under the possession of the company.
9. Village- Chokiya Tand is at a distance of 0.18 km along with other sensitive areas within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
10. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
- 11. The Committee noted that Dhobdhab nala is located at an approximate distance of 0.01 km from the project site. The PP informed that the project site does not encroach upon the natural drainage and that adequate buffer distance has been maintained. The Committee took note of the submission that the matter has been examined by the Water Resources Department (WRD), Jharkhand, and that the Office of the Executive Engineer, WRD, Jalpath Anchal, Hazaribagh, vide Memo No. 816 dated 23.12.2025, has assessed the proposal based on 1 in 25 years flood plain data and recommended the proposal for further necessary action. However, the Committee noted that the NOC obtained by PP is relevant to flood plain of River(s), whereas the requirement is to establish that PP has not encroached upon the nallah, and its existing & proposed activities will obstruct the natural flow of the nala. Accordingly, a fresh NOC may be uploaded on the PARIVESH portal.**
12. Also there are other water bodies within 10 Kms. radius of the project site. The EAC opined that robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
13. The water requirement for the proposed project is estimated to be 2,444 m³ (one-time) and 717 KLD (per day) after expansion. The permission to draw 0.604 MCM/year (1,655 m³/day) of surface water from the Damodar River which has been obtained from the Central Water Commission via letter No. 887-93 dated 01.07.2019. The EAC recommended that the PP shall secure required approval for the total water requirement from the competent authority.
14. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and noted that PM_{2.5} and PM₁₀ are reported high. The EAC opined that PP shall undertake stringent measures to minimise the levels of PM₁₀ and PM_{2.5}.
15. The Committee also deliberated on the public hearing issues and the action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
16. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LIFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.
17. It is reported that there were 08 Schedule I species found in the study area. The wildlife conservation plan has been prepared and submitted to the DFO (Wildlife), Ramgarh, Jharkhand. The EAC opined that the recommendations of the approved plan shall be strictly implemented in consultation with the State Forest Department.
18. PP reported that The proposed expansion project of M/s Sri Venkatesh Iron & Alloys (India) Limited involves an increase in the total plot area from 5.82 hectares to 11.434 hectares through the addition of 5.614 hectares. The combined plant area, including the existing and proposed expansion areas, is 11.433 hectares, of which 6.5794 hectares is utilized for industrial facilities and allied infrastructure, while 4.8536 hectares, constituting about 42.45% of the total plant area, is earmarked for green belt development, exceeding the prescribed minimum requirement. In the existing plant area, 25.95% of the land is developed as green belt, whereas in the proposed expansion area, about 85% of the land is

allocated for green belt development. Overall, the project commits to developing and maintaining a green belt over more than 42% of the total plot area. Total no. of 3500 saplings will be planted and nurtured in 4.8536 hectares in 5 years. The EAC deliberated on the revised greenbelt action plan and is of the opinion that greenbelt shall be developed within a year and maintained as committed and in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025.

19. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found it satisfactory.
20. **The Committee deliberated upon the certified compliance report of IRO, MoEF&CC and along with the ATR submitted by the project proponent along with Review report on Action Taken from RO MoEF&CC dated 01.12.2025. The EAC noted that there are 11 partially complied conditions and 01 not complied condition. The IA CMD has already initiated action for compliance of existing ECs. Therefore, EAC opined that the project proponent needs to obtain Action Closure of IA-Compliance & Monitoring Division of MoEF&CC.**
21. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
22. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
23. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal under the provisions of EIA Notification, 2006 for grant of Environment Clearance **subject to uploading of (a) written submission on PARIVESH portal, (b) Action Closure Report from IA-CMD, MOEF&CC on the CCR and (c) specific NOC/ certification from the competent authority clearly stating that the project does not encroach upon or obstruct the natural flow of the nala.** The EAC categorically noted that the recommendation to grant EC is technical in nature under the provisions of the EIA Notification 2006, and subject to the fulfilment of commitments made by the PP to secure all the permissions/ approvals/ consents from Central/ State Authorities, as may be required. The recommendation does not create an obligation for authorities that handle issues related and relevant to construction and operation of the project under other independent procedures/ statutes, including the provisions stipulated in the Land Acquisition (R&R) Act, 2013. The specific and general conditions are mentioned below:

3.6.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

3.6.6. Details of Environment Conditions

3.6.6.1. Specific

Specific	
1.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
2.	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
3.	The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
4.	Village- Chokiya Tand is at a distance of 0.18 km along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
5.	Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
6.	Dhobdhab nala is located at an approximate distance of 0.01 km along with other water bodies within 10 Kms. radius of the project site. Robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
7.	The water requirement for the proposed project is estimated to be 2,444 m ³ (one-time) and 717 KLD (per day) after expansion. The permission to draw 0.604 MCM/year (1,655 m ³ /day) of surface water from the Damodar River which has been obtained from the Central Water Commission via letter No. 887-93 dated 01.07.2019. PP shall secure required approval for the total water requirement from the competent authority.
8.	Greenbelt shall be developed (within a period of 1 year) and maintained in the project area as committed and in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
9.	The PP shall undertake plantation, in compliance to MoEF&CC OM dated 24.07.2024, in the area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at (https://merilife.nic.in)
10.	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented, which is amounting to Rs. 1.12 Crores. The action plan shall also cover activities related to (i) promotion of environmental education and awareness (including green skills), and (ii) sub-plan to address the

	vulnerable sections (such as the elderly, children, pregnant women, persons with disabilities, and the terminally ill). An institutional mechanism shall be developed for monitoring the implementation of the commitments made, which shall also manage and address public grievances. The progress of implementation of PH Action plan and grievance redressal shall be submitted regularly to the Regional Office of MoEF&CC.
1 1.	PP shall implement the skill development programs, in alignment with relevant Government initiatives/ programmes (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC.
1 2.	PP shall Install CO sensors with alarms at strategic locations in the Plant.
1 3.	PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.
1 4.	PP shall establish a dedicated in-house Research & Development (R&D) cell aimed at identifying, evaluating, and implementing emerging clean technologies. The focus of this cell will be on enhancing process efficiency, minimizing waste generation, and promoting circular economy practices within the plant operations. The effectiveness of the R&D initiatives shall be reviewed periodically, and outcomes contributing to sustainability shall be documented and reported
1 5.	The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded, compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends. A comparative study of change in agriculture yield during the past ten years may be undertaken for 3km radius.
1 6.	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

3.6.6.2. Standard

3(a)	Metallurgical Industries (ferrous and non ferrous)
Statutory compliance	
1.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

2.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
Air Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area.
3.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
4.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
5.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
6.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
7.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
8.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
9.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
10.	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
11.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
12.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
13.	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
14.	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers),

	condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
1 5.	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
1 6.	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
1 7.	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm ³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
1 8.	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
Air Quality Monitoring and Preservation in case of Ferro Alloy Plants	
1.	Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
2.	The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
3.	The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
4.	Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m ³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants. (in case of Silico Manganese and Ferro Silicon alloy steel)
5.	No Ferro-chrome production shall be carried out without prior Environmental clearance from MOEF&CC.
6.	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
7.	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.
Water Quality Monitoring and Preservation	
1.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

2.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
3.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
4.	Water meters shall be provided at the inlet to all unit processes in the plants.
5.	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
6.	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
7.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
8.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
9.	Air Cooled condensers shall be used in the captive power plant.
Noise Monitoring and Prevention	
1.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
2.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
3.	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.
Energy Conservation Measures	
1.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
2.	Provide LED lights in their offices and residential areas.
Energy Conservation Measures in case of DRI Kilns (Sponge Iron)	
1.	The project proponent shall provide waste heat recovery system on the DRI Kilns.
2.	The dolochar generated shall be used for power generation.
3.	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.

4.	The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.
Waste Management	
1.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
2.	Kitchen waste shall be composted or converted to biogas for further use.
3.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
4.	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
5.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
6.	Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.
Waste Management in case of Sinter Plant	
1.	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.
2.	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
3.	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.
Green Belt	
1.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
2.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.

3.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
Public Hearing and Human Health Issues	
1.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
3.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
4.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
Environment Management	
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
2.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
3.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.
Miscellaneous	
1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
2.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly

	basis.
4.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
5.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
6.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
7.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
8.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
9.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
10.	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
11.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
12.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
13.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
14.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
16.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
17.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

3.7. Agenda Item No 7:

3.7.1. Details of the proposal

Application for Amendment in EC for exemption of certain General Conditions of EC dated 10.02.2020 for value addition and technological upgradation in the existing 1.3 MTPA Integrated Steel Plant premises of M/s JSWSL Salem Works located at village Pottaneri and M. Kalipatti, Mecheri, Taluk Mettur, District Salem, Tamil Nadu. by JSW STEEL LIMITED located at SALEM,TAMIL NADU			
Proposal For		Amendment in EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
IA/TN/IND1/562262/2025	IA-J-11011/281/2006-IA.II(I)	19/12/2025	Metallurgical Industries (ferrous and non ferrous) Primary Metallurgical Industry - All Projects (3(a))

3.7.2. Project Salient Features

[Proposal no.: IA/TN/IND1/562262/2025; File No. IA-J-11011/281/2006-IA.II (I)] [Consultant: Mecon Limited; Valid upto: 09.02.2027]			
S l. N o.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
B. General Conditions			
II. Air quality monitoring and preservation			
1	xv. Land-based APC system shall be installed to control coke pushing emissions.	<p>Observation: Considering the age of the non-recovery coke oven, there are technical constraints and operational limitations for installing a land-based APC system.</p> <p>Remarks: Since, the unit has installed a Non-Recovery Coke Oven plant, installation of Land based APC is technically not feasible at this stage, the condition may be exempted.</p>	<p>Revised EC Condition - The project proponent shall adopt effective measures to control the coke pushing emissions for non-recovery type Coke Ovens.</p> <p>Compliance: Not applicable, as the existing coke oven plant is non-recovery type. However, the PP has installed dedicated mobile dedusting system in both charging/pusher cars.</p> <p>Remarks: Request for exemption of land-based APC system and revision in the condition. As the existing Coke Oven Plant is non-recovery type Land-based APC systems not applicable and are mainly applicable to recovery type coke ovens to control the coke pushing emissions, where ovens will be operated un</p>

S l. N o.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
			<p>der positive pressure and vertical loading. JSWSL installed coke oven plant is non-recovery type in 2007 with small capacity 0.50 MTPA. These are heat recovery coke ovens which operate in high negative pressure to suck hot gases for heat recovery with no significant emissions. Hence process design does not demand installation of Land-based APC system in to the existing non-recovery type coke ovens. However, a dedicated localized dedusting system has been installed in both charging/pushing cars. (02 Nos.).</p>
2	<p>xvi. Monitor CO, HC and O₂ in flue gases of the coke oven battery to detect combustion efficiency and cross leakage in the combustion chamber.</p>	<p>Observation:</p> <ol style="list-style-type: none"> 1. Monthly once manual readings are taken for CO, CO₂ and O₂, and the same has been recorded in the log book. 2. Real time flue gas O₂ is being monitored and the values in the range of 5 to 6%. <p>Based on CIMFR advice, the PP has monitored HC in the flue gas of WHRB exit and found the content is insignificant. CIMFR recommends that the PP to regularly monitor HC along with other gases.</p> <p>Remarks: Even though the Coke Oven is Non-Recovery there is a possibility to monitor the parameters at WHRBs end. The EC condition may be retained and to be complied.</p>	<p>Revised EC Condition - Monitor CO, HC and O₂ in flue gases of Waste Heat Recovery Boilers for non-recovery type Coke Ovens.</p> <p>Compliance: The site is installed with Non-Recovery Type Coke Oven and it is informed that the requirement of monitoring of HC, CO and O₂ were intended for recovery type of coke ovens where in the cross over leakage exists and their coke oven plant is non-recovery type. However, Monitoring of CO and O₂ is done in WHRBs where the COP gas is directly coupled for heat recovery.</p> <p>Remarks: Request for revision in the condition. The existing Coke Oven plant is of non-recovery type and heat for carbonisation is provided by the radiation heat by burning of evolved gases from the bottom and top of the coal mass. Thus, the monitoring of these parameters is not applicable to heat recovery type coke ovens. However, based on CIMFR advice, JSWSL Salem has carried out monitoring of CO, HC and O₂ at WHRB flue gas emission, and found insignificant content.</p>
3	<p>xvii. Vapour absorption systems</p>	<p>Observation:</p>	<p>Revised EC Condition - Nil</p>

S l. N o.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
	hall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	<p>The existing coke oven battery is a non-recovery type coke oven battery; entire volatile matters generated during coke making is burnt into the coke oven. No coke oven gas collected from any of the oven in the coke oven battery.</p> <p>Remarks: Since, the unit has installed a Non-Recovery Coke Oven plant, Coke Oven gas cooling system not applicable and the condition may be exempted.</p>	<p>Compliance: Not applicable. Remarks: Request for exemption and removal of the condition, as the existing Coke Oven Plant is non-recovery type.</p>
4	xviii. In case concentrated ammonia liquor is incinerated, adopt high temperature incineration to destroy Dioxins and Furans. Suitable NOx control facility shall be provided to meet the prescribed standards.	<p>Observation: The existing coke oven battery is a non-recovery type coke oven battery. In this coke oven battery ammonia liquor is neither produced nor any concentrated ammonia liquor incinerated.</p> <p>Remarks: Since, the unit has installed a Non-Recovery Coke Oven plant, Coke Oven gas cooling system not applicable and the condition may be exempted.</p>	<p>Revised EC Condition - Nil Compliance: Not applicable. Remarks: Request for exemption and removal of the condition, as the existing Coke Oven Plant is non-recovery type.</p>
5	xxii. The project proponent shall install Dry Gas Cleaning Plant with bag filter for Blast Furnace and SMS converter.	<p>Observation: Blast Furnace: Considering the age of the installation and space and additional GHG emission, installation of dry GCP in BF#1 is not technically viable presently. SMS Converter: Converter not installed in JSWSL, Salem Works and also Water consumption and Power consumption will be higher in Dry GCP compared to the Wet GCP. Also, Treated Wastewater usage will come down due to the Dry GCP process and due to the area concern it is technically not possible to install.</p> <p>Remarks: Blast Furnace: The General Condition may be exempted or modified "In case of new installation of Blast Furnace Dry Gas cleaning system to be explored and installed. SMS Converter: As JSWSL, Salem Works, SMS converter not installed in the project.</p>	<p>Revised EC Condition - The project proponent shall install Dry Gas Cleaning Plant with bag filter for Blast Furnace in case of expansion project. Compliance: Being partially complied. Remarks: Request for exemption of installation of Dry Gas Cleaning Plant with bag filter in the existing Blast Furnace#1 & SMS and revision in the condition. Blast Furnace: The existing steel plant consists of small capacity Blast Furnaces (BF#1 402 m3 with 0.367 MTPA & BF#2 650 m3 with 0.683 MTPA capacity). The BF#1 has been installed in the year 1998 with wet type gas cleaning system and BF#2 has been installed in 2007 with Dry type gas cleaning system. Steel Melting Shop: SMS converter not installed in the project.</p>

S l. N o.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
		<p>em not installed any converter in SMS the condition may be exempted.</p>	<p>he Salem works and there are 02 Nos. of EOFs (EOF#1 with the capacity of 0.64 & EOF#2 with the capacity of 0.62 MTPA) installed in 1998 and 2007 respectively. The operating temperature is very high (1400-1500°C) where by hot flue gas cleaning directly with Dry type is technically not possible and an indirect cooling system (Fresh water loss will be high) shall be provided to minimize the flue gas temperature into certain level (900-800°C) and subsequently a atmospheric cooling also shall be done (where additional power requirement due to more flue gas volume) to maintain the flue gas temperature by 200°C before connecting to Dry type gas cleaning system. Though it is waste heat, recovery system not feasible due to batch process and inconsistency (blowing and non-blowing operations) in flue gas volume. Also modification needs more space which is practically not available at the EOFs process area. As per the present EC dated 10.02.2020, there is no modification proposed in the EOF facilities.</p>
6	<p>xxiii. Dry quenching (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot coke.</p>	<p>Observation: Coke Dry Quenching (CDQ) is not feasible for the non-recovery coke ovens at JSW, Salem Works due to the lack of inert gas availability, significant carbon loss associated with CDQ, increased coke fines generation, and insufficient space for installation. Standard ToR for Coke Oven Plant [4(b)(ii)] for conducting EIA-EMP Study issued by MoEF&CC, CDQ system is applicable for Coke Oven plant of capacity 0.8 MTPA and above, whereas the coke oven plant capacity at JSWSL Works installed is 0.5 MTPA only. Remarks:</p>	<p>Revised EC Condition - Nil Compliance: Not applicable. Remarks: Request for exemption and removal of the condition. The installation of CDQ was taken up with the OEM and it is reported by them that installation of CDQ within the existing capacity of 0.5 MTPA Coke Oven (non-recovery type) is not technically feasible and viable. Furthermore, as per the Special Condition No. 6 of Pg. No. 11/11 of Standard ToR for Coke Oven Plant [4(b)(ii)] for conducting EIA-EMP Study issued by MoEF&CC, it is clearly stated that installation of CDQ system is applicable for Coke Oven plant of capacity 0.8 MTPA and above.</p>

S l. N o.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
		The EC general condition may not be technically feasible and commercially viable (due to the capacity) to implement in JSWSL, Salem. The general condition may be exempted.	Hence, the condition is not applicable.
III. Water quality monitoring and preservation			
7	<p>iii. The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time.</p>	<p>Observation: JSWSL, Salem works is operating a 0.5 MTPA capacity Non-Recovery Type Coke Oven where the dedicated ETP not applicable to the Coke Oven and the part of the condition not applicable to JSWSL, Salem Works. No sponge iron plant is installed in JSWSL, Salem works. Effluent generated from the CPP is neutralized and sent to steel plant Guard Pond for further treatment and reuse at steel plant.</p> <p>Remarks: Since JSW installed non-recovery coke oven, the condition to provide the ETP for coke oven and by product to meet standards prescribed in G.S.R 277 (E) dated 31st March 2012 is not applicable for COP (NR). The part (a) of the general condition may be exempted.</p> <p>G.S.R 414 (E) dated 30th May 2008 Not applicable to M/s JSWSL, Salem. The part of the General Condition may be exempted.</p> <p>S.O. 3305 (E) dated 7th December 2015 is applicable to JSWSL, Salem. The condition may be retained.</p>	<p>Revised EC Condition - The project proponent shall ensure the wastewater treatment facility to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel) and meet the standards prescribed in S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plant) as amended from time to time.</p> <p>Compliance: The Coke Oven plant installed at the facility is non-recovery type and hence the condition is not applicable to P.P. The PA has not installed Sponge iron plant in the existing plant.</p> <p>As per the latest CTO of CPP-II dated 29.04.2022. Thermal Power Plant Wastewater is sent to Steel plant guard pond for treatment and reuse in the steel plant.</p> <p>Remarks: Based on the advices of CIMFR, Request for partial removal of provision of ETP for - i) coke oven and by-product to meet the standards prescribed in G.S.R. 277(E) dated 31st March 2012 (Integrated iron & Steel) ETP was not anticipated, as the existing coke oven plant is non-recovery type and ii) Request for exemption and removal of the condition- provisions of G.S.R. 414 (E) dated 30th May 2008 (Sponge Iron) are not applicable also, as the plant configuration does not include any Sponge Iron plant.</p>
8	x. Treated water from ETP of CO BP shall not be used for coke	<p>Observation: JSWSL, Salem works installed</p>	<p>Revised EC Condition - Nil Compliance: Not applicable, as</p>

S l. N o.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
	quenching.	a Non-recovery coke oven plant and no COBP has been installed. Remarks: Since JSW installed non-recovery coke oven, the EC general condition is not applicable. The general condition may be exempted.	the existing coke oven plant is non-recovery type. Remarks: Request for exemption and removal of the condition, as the existing Coke Oven Plant is non-recovery type.
V. Energy Conservation measures			
9	i The project proponent shall provide TRTs to recover energy from top gases of Blast Furnaces.	Observation: The existing Blast Furnace capacities of the steel plant are small, where the gas pressure is not sufficient to provide TRT. Remarks: Since JSW installed small capacity BF's, the EC general condition is technically not feasible for implement. The general condition may be exempted or modified as "In case of installation of new Blast Furnace the PP shall explore to install TRT for power generation".	Revised EC Condition - Nil Compliance: The capacity of the existing blast furnaces (BF#1 - 402 m3 and BF#2 - 650 m3) are very small and operating with low top gas pressure (< 1.3 bar). Hence, installation of TRT is not technically feasible, since the operating design gas pressure is lower than the design requirement. Remarks: Request for exemption and removal of the condition as it is not applicable. The capacity of the existing blast furnaces (BF#1 - 402 m3 and BF#2 - 650 m3) is very small and operating at low top gas pressure (< 1.3 bar). The installation of TRT was taken up with the OEM and it is reported by them that at the installation of TRT is not technically feasible and viable, since the operating design gas pressure is low.
10	ii. Coke Dry Quenching (CDQ) shall be provided for coke quenching for both recovery and non-recovery type coke ovens.	Observation: Please refer point no. 6 of the table. Coke Dry Quenching (CDQ) is not feasible for the non-recovery coke ovens at JSW, Salem Works due to the lack of inert gas availability, significant carbon loss associated with CDQ, increased coke fines generation, and insufficient space for installation. Remarks: The EC general condition may not be technically feasible and commercially viable (due to the capacity) to implement in JSW	Revised EC Condition - Nil Compliance: The existing coke ovens (Non-recovery type) were installed with wet quenching in line with the EC approved in 2007. There is no modification proposed in the existing coke ovens in the recently approved EC dated 10.02.2020. Remarks: Request for exemption and removal of the condition as not applicable. The installation of CDQ was taken up with the OEM and it is reported by them that installation of CDQ within the existing capacity of 0.5

S l. N o.	EC conditions for JSWSL Sale m Works as per existing EC let ter dated 10/02/2020 and 20/ 05/2025	Advices as per Techno-econo mic feasibility study report b y CSIR-CIMFR	Revised EC conditions as per proposed amendment
		SL, Salem. The general conditio n may be exempted.	MTPA Coke Oven (non-recover y type) is not technically feasibl e and viable. Furthermore, as p er the Special Condition No. 6 of Pg. No. 11/11 of Standard T oR for Coke Oven Plant (4(b)(i i)) for conducting EIA-EMP Stu dy issued by MoEF&CC, it is cle arly stated that installation of C DQ system is applicable for Co ke Oven plant of capacity 0.8 MTPA and above. Hence, the c ondition is not applicable.
1 1	iv. Use torpedo ladle for hot met al transfer as far as possible. If ladles not used, provide co vers for open top ladles.	Observation: The existing Blast Furnace capa cities of the steel plant are sma ll capacity (60t hot metal/batc h) whereas torpedo ladle is app licable for larger size Blast Furn ace (> 200 tons). In JSW open l adle (60 ton) is covered with ri ce husk during hot metal transf er. Remarks: The EC general condition may n ot be technically feasible to im plement in JSWSL, Salem. How ever, this condition may be am ended as "If torpedo ladles are not used for hot metal transfer, the open ladles shall be covere d properly".	Revised EC Condition - Provid e suitable covers for open top l adles for transfer of hot metal, in case torpedo ladles are not u sed. Compliance: Being complied. Remarks: Request for exempti on of use of torpedo ladle and revision in the condition. Use of Torpedo ladle is applicable to b igger size BF capacity. The exis ting BF capacity of the steel pla nt is small (BF#1 402 m3 with 0.367 MTPA & BF#2 650 m3 with 0.683 MTPA capacity). La dle capacity is 60 tones and lad les are covered by means of he at insulating compounds such a s dry rice husk.
VI. Waste Management			
1 2	iii. Tar sludge and waste oil shall be blended with coal charge d in coke ovens. (applicable only to recovery coke ovens)	Observation: Tar or tar sludge is not produce d in this non-recovery type cok e oven battery. Waste/ used oil is being disposed of accordanc e to the HWOM guidelines. Remarks: Since, the unit not installed wit h recovery type coke oven the part of the general condition m ay be exempted or amended as waste oil generated from the N R – COP shall be disposed to th e authorized recyclers.	Revised EC Condition - Waste oil generated from the NR – C OP shall be disposed to the aut horized recyclers. Compliance: Not applicable, as the existing coke oven plant is non-recovery type. Remarks: Request for exempti on of blending Tar sludge with coal charged in coke ovens, as the existing Coke Oven Plant is non-recovery type.

3.7.4. Deliberations by the EAC in current meetings

Deliberations by the Committee

1. The project was earlier granted environment clearance vide F. No. J-11011/281/2006-IA.II(I) dated 10.02.2020 for Installation of 0.8 MTPA slag grinding unit and new facilities related to value addition and technological upgradation within the existing 1.3 MTPA Integrated Steel Plant premises located at Mecheri, Taluk Mettur, District Salem, Tamil Nadu under the provisions of para 7(ii) of the EIA Notification, 2006 in the name of M/s. JSW Steel Works. JSWSL Salem Works obtained splitting & transfer of EC of the existing 0.8 MTPA Slag Grinding Unit to JSW Cement Ltd. and obtained EC Splitting letter F. No. J-11011/281/2006-IA.I(I) dated 20.05.2025 for Splitting of EC for the existing 0.8 MTPA Slag Grinding Unit of 1.3 MTPA Integrated Steel Plant between JSW Steel Limited Salem Works and JSW Cement Limited. The company obtained CTE vide order number 2006131408047 dated 18.11.2020 and CTO vide Consent No. 2307249391459 dated 23/01/2023 from Tamil Nadu Pollution Control board (TNPCB) valid upto 31.03.2026.
2. The instant proposal is for seeking Amendment in EC obtained from MoEF&CC vide File No. IA-J-11011/281/2006-IA.II (I) dated 10.02.2020 and EC Splitting letter dated 20.05.2025 for the exemption of certain General Conditions of EC without any increase in Steel production capacity as detailed in relevant para above.
3. The PP reported that Environmental Clearance dated 10.02.2020 was granted for installation of a 0.8 MTPA slag grinding unit and limited technological upgradation within the existing 1.3 MTPA Integrated Steel Plant, without any modification to the core steelmaking units. During implementation and compliance review, it was observed that certain General Conditions of the EC are either not applicable to the existing units, particularly the Non-Recovery Coke Oven Plant, or cannot be implemented due to legacy design, technology and layout constraints, while a few conditions are only partially implementable during Phase-II upgradation. The EAC (Industry-I), while appraising the proposal for splitting and transfer of the slag grinding unit EC, observed that such non-applicable conditions may be considered for revision through amendment with proper justification. Accordingly, as directed by MoEF&CC, PP undertook a detailed techno-economic feasibility study through by CSIR-CIMFR, which concludes that certain conditions are technically infeasible to implement under any circumstances, while others warrant modification. In view of the above, the present proposal seeks amendment of select General Conditions of the EC dated 10.02.2020, limited to non-applicable or technically infeasible conditions, without any dilution of environmental safeguards or statutory compliance.
4. The Committee deliberated on the amendments sought and found that the technical justifications for reconfiguration are adequately supported by a detailed techno-economic feasibility study carried out through CSIR-CIMFR, which concludes that certain conditions are technically infeasible to implement under existing circumstances, while others warrant modification.

Recommendations of the Committee:

3.7.5. Recommendation of EAC

Recommended

3.7.6. Details of Environment Conditions

3.7.6.1. Specific

Specific	
1.	-

3.8. Agenda Item No 8:

3.8.1. Details of the proposal

Transfer of Environmental Clearance (name change) from M/s JSL Ferrous Limited to M/s Jindal Ferrous Limited for Iron making facilities of 2.35 MTPA and Steel making facilities of 2.3 MTPA located at Kalinganagar Industrial Complex, Jajpur, Odisha by JSL FERROUS LIMITED located at JAJAPUR, ODISHA			
Proposal For		Transfer of EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
IA/OR/IND1/541185/2025	J-11011/281/2007-IA.II(I)	17/12/2025	Metallurgical Industries (ferrous and non ferrous) Primary Metallurgical Industry - All Projects (3(a))

3.8.2. Project Salient Features

Details submitted by Project proponent			
Type of Order	Date	Details	
CTE	07.07.2023	Consent to Establish is obtained from Odisha Pollution Control Board vide letter no.10791/IND-II-CTE-6901 dated 07.07.2023 in the name of M/s. JSL Ferrous Limited	
CTO	06/03/2023	Consent to operate is obtained from Odisha Pollution Control Board vide letter no. 10840/IND-I-CON-6948 dated 10.06.2025 for Sinter plant 1x248 m ² in the name of M/s. JSL Ferrous Limited	
	Details of all ECs (including amendments, validity extension) be provided, if applicable.	M/s. JSL Ferrous Limited got 1st time Environment Clearance for transfer of Iron making facilities of 2.35 MTPA and Steel making facilities of 2.3 MTPA from Jindal Stainless Limited located at Kalinganagar Industrial Complex, Jajpur, Odisha vide file No. F. No. J-11011/281/2007-IA.II (I); dated 16th June, 2023.	
	Copies of CIN Nos. of both entities be provided, along with documentary proof, as applicable.	Jindal Ferrous Limited (post name change from JSL Ferrous Limited) CIN No :U27200HR2019PLC083764 JSL Ferrous Limited CIN No : U27200HR2019PLC083764 (CIN number remain unchanged)	
		The unit has obtained first time CTO from SPCB for 1 x 248 m ² Sinter plant vide letter No. 10840/IND-ICON-6948 dated 10.06.2025.	
	Copy of CTE and CTO in the name of new entity, or proof of	The unit has obtained permission from SPCB for company name change from JSL Ferrous Limited to Jindal Ferrous Limited vide	

	submission of application made to concerned SPCB for change of name in CTO needs to be submitted.	de letter No. 12744/IND-ICON- 6948 ; dated 08.07.2025.																																																									
	Statement of compliance of OM dated 03-11-2023 be provided. In case, name change/transfer is applied after more than 24 months of such change/ transaction, then a CCR may be submitted as per OM dated 19-02- 2025.	M/s. JSL Ferrous Limited got 1st time Environment Clearance for transfer of Iron making facilities of 2.35 MTPA and Steel making facilities of 2.3 MTPA from Jindal Stainless Limited located at Kalinganagar Industrial Complex, Jajpur, Odisha vide file No. F. No. J-11011/281 /2007-IA.II(I); dated 16th June, 2023 which is within the 24 months of the date of filing application i.e. 13th June,2025. Further, the new entity namely M/s. Jindal Ferrous Limited, post name change; got approval from High Level Clearance Authority of State Govt. of Odisha dated 18th September,2023.																																																									
	Weather forest land is involved or not? If so, details may be provided.	No such forest land is involved in the entire premises.																																																									
	Steps taken to transfer the forest clearance and NBWL clearance in the name of new entity, if applicable and copy of the approval obtained.																																																										
	Weather the land is changed in the name of new entity. If so, the details may be shared along with documentary proof. If not, the details of action initiated to do	Land approval from Revenue and disaster management department, Govt of Odisha has been obtained for subleasing of land from Jindal Stainless Limited to Jindal Ferrous Limited.																																																									
	The detailed tabulation on implementation status of EC (chronology wise), duly supported	<table><tr><th>Sl. No.</th><th>Facilities/ Units</th><th>Configuration</th><th>Capacity</th><th>As per EC/CTE</th><th>Implementation status</th><th>Production as per CTO</th></tr><tr><td></td><td>Iron making facilities</td><td></td><td>2.35 MTPA</td><td>EC obtained dated 16.06.2023 in the name of JSL Ferrous Limited. CTE obtained dated 07.07.2023 in the name of JSL Ferrous Limited.</td><td></td><td></td></tr><tr><td>1</td><td>Blast Furnace</td><td>1 x 2307 m³</td><td>2.35 MTPA</td><td></td><td>Installed.</td><td>Commencement of plant operation has not been started. Construction of the project is at fi</td></tr><tr><td>2</td><td>Sinter Plant</td><td>1 x 120m² + 1 x 248m²</td><td>3.64 MTPA</td><td></td><td>1 x 248m² installed 1 x 120m² not installed</td><td></td></tr><tr><td></td><td>SMS</td><td></td><td>2.3 MTPA</td><td></td><td></td><td></td></tr><tr><td>1</td><td>BOF</td><td>1 x 110 T + 1 X 150 T</td><td>-</td><td></td><td>Installed.</td><td></td></tr><tr><td>2</td><td>LF</td><td>2 x 150 T</td><td>-</td><td></td><td>Installed.</td><td></td></tr><tr><td>3</td><td>Caster Shop</td><td>2 x 1 Strand</td><td>-</td><td></td><td>1 x 1 Strand ins</td><td></td></tr></table>		Sl. No.	Facilities/ Units	Configuration	Capacity	As per EC/CTE	Implementation status	Production as per CTO		Iron making facilities		2.35 MTPA	EC obtained dated 16.06.2023 in the name of JSL Ferrous Limited. CTE obtained dated 07.07.2023 in the name of JSL Ferrous Limited.			1	Blast Furnace	1 x 2307 m ³	2.35 MTPA		Installed.	Commencement of plant operation has not been started. Construction of the project is at fi	2	Sinter Plant	1 x 120m ² + 1 x 248m ²	3.64 MTPA		1 x 248m ² installed 1 x 120m ² not installed			SMS		2.3 MTPA				1	BOF	1 x 110 T + 1 X 150 T	-		Installed.		2	LF	2 x 150 T	-		Installed.		3	Caster Shop	2 x 1 Strand	-		1 x 1 Strand ins	
Sl. No.	Facilities/ Units	Configuration	Capacity	As per EC/CTE	Implementation status	Production as per CTO																																																					
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2	LF	2 x 150 T	-		Installed.																																																						
3	Caster Shop	2 x 1 Strand	-		1 x 1 Strand ins																																																						

								talled.	nal st age.
	The UNDERTAKING (by transferee) and NOC (by transferor) may be submitted in non-judicial stamp paper.	Affidavit for Undertaking by transferee regarding acceptance of the terms and conditions under which the Prior Environment Clearance was granted is submitted.							
	The reason for seeking transfer of EC be submitted.	The reason for seeking transfer of EC for name change from M/s. JSL Ferrous Limited to M/s. Jindal Ferrous Limited is alignment with our evolving business goals and to better report our company brand identity.							
	The EDS Reply was examined, along with the information submitted through Form. It is noted that as per the CIN certificate, the name change of company from 'JSL Ferrous' to 'Jindal Ferrous' happened on 03-05-2023. The application was submitted on 12-06-2025. Hence, the time period between 'change of name' and 'submission of application for EC transfer' is more than 24 months. PP is, therefore, again requested to go through previous ADS, and comply with the provisions of OM dated 03-11-2023 and 19-02-2025. It is submitted that the proposal needs to be placed before EAC for appraisal, and for doing the same a CCR is required along with a valid justification for such delay, and a request addressed to Hon'ble ME FCC for condonation of delay. Accordingly, PP may comply with the requirements for further consideration of the proposal.	CCR report from IRO, MoEF&CC, Bhubaneswar obtained on 10.12.2025 in respect of compliance status of EC conditions of JSL Ferrous Limited has been submitted as an EDS reply. Request letter for condonation of delay in filing application for transfer of Environmental Clearance (name change) from M/s JSL Ferrous Limited to M/s Jindal Ferrous Limited has been submitted through EDS reply addressing to Hon'ble Minister, Environment, Forest & Climate Change, Gol.							

Sl. No.	Name of Company	CIN No.	Status w.r.t. Change of ownership
A.	M/s JSL Ferrous Limited	U27200HR2019PLC083764	As per Sl. No. 2.2 of Form-7, the project proponent has submitted that the proposal does not involve change of ownership and the CIN No. of both the companies are found to be same. In view of the same, the proposal involves Change of company name in the Environment Clearance from M/s JSL Ferrous Limited to M/s Jindal Ferrous Limited without change of ownership.
B.	M/s Jindal Ferrous Limited	U27200HR2019PLC083764	

Sl. No.	Facilities/ Units	Configuration	Capacity	As per EC dated	Implementation status	Production as per CTO
Iron making facilities			2.35 MTP	EC obtained		Commencement

			A	ed dated 16.06.2023 in the name of JSL Ferrous Limited.		nt of plant operation has not been started. Construction of the project is at final stage.
1	Blast Furnace	1 x 2307 m ³	2.35 MTPA		Installed.	
2	Sinter Plant	1 x 120m ² + 1 x 248m ²	3.64 MTPA		1 x 248m ² installed 1 x 120m ² not installed	
SMS			2.3 MTPA			
1	BOF	1 x 110 T + 1 X 150 T	-		Installed.	
2	LF	2 x 150 T	-		Installed.	
3	Caster Shop	2 x 1 Strand	-		1 x 1 Strand installed.	

· Form No.7 for transfer of Environmental Clearance.

· Undertaking by way of Affidavit in a non-judicial stamp dated 13.06.2025 from Director, M/s Jindal Ferrous Limited stating that they shall ensure to comply with all the conditions/environmental safeguards stipulated in the Environment Clearance dated 16.06.2023.

· NOC by way of Affidavit in a non-judicial stamp dated 13.06.2025 from Director, M/s JSL Ferrous Limited stating that they submit NOC for the transfer of the Environmental Clearance dated 16.06.2023.

· Certificate of incorporation pursuant to change of name issued by the Registrar of Companies, Delhi dated 03.05.2023 and CIN No. U27200HR2019PLC083764 w.r.t. change of company name from M/s. JSL Ferrous Limited to M/s. Jindal Ferrous Limited

· Obtained permission from Odisha Pollution Control Board vide letter No. 12744/IND-ICON- 6948 dated 08.07.2025 for change in company name from M/s. JSL Ferrous Limited to M/s. Jindal Ferrous Limited.

S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
1	Gr e e n i n g a n d p a v i n g s h a l l b e i m	Partially C o m p l i e d. T h e w o r k i s u n d e r p r o g r e s s. T h e p r o j e c t p r o p o n e n t h a s s t a r t e d f o r p a v i n g a n d g r e e n i n g a t s o m e p o r t i o n s. I t i s r e p o r t e d b y t h e p	S p e c i f i c C o n d i t i o n s (i	M a j o r r o a d s w i t h l a r g e r w i d t h i n s i d e

S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	pl e m e n t e d i n t h e p l a n t a r e a t o	roject pro ponents t hat meas ures have been plan ned for m inimizing soil erosi on throug h paved r oads and adequate greenbelt and lawn developm	i)	th e pl an t p r e m i s e s h a v e b e e n p a v e

S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
	a r r e s t s o i l e r o s i o n a n d d u s t p	e n t p o s t c o m p l e t i o n o f c o n s t r u c t i o n j o b s.	S p e c i f i c / G e n e r a l	d t o a r r e s t s o i l e r o s i o n a n d d u s t p o l l u



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
	oll ut io n fr o m ex p o s e d s o i l s u r f		S p e c i f i c / G e n e r a l	tio n. F u r t h e r, a l l t h e i n t e r n a l c o n n e c t i n



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
	a c c e.		S p e c i f i c / G e n e r a l	g r o a d s w i l l b e p a v e d a f t e r g e t t i n g p r



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	op er ac ce ss to th e r oa d as co ns tru cti



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	on w o r k h a s n o t b e e n c o m p l e t e d y e



S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	t. W e u n d e r t a k e t o c o m p l e t e t h e j o



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	b of pa vin g of all th e r oa ds by 3 1. 0



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	5. 20 2 6. F u r t h e r, o n g r e e n b e l t d e v e l



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	op m e n t, w e h a v e a l r e a d y c o v e r e d



S. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	35 A c r e s o f l a n d u n d e r G r e e n b e l t



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	co ve r. Gr ee n be lt co ve r, i n ba lan ce



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	38 A c r e s o f l a n d w i l b e c o m p l e t e d



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	by FY 20 2 6- 27 to en su re 3 3% Gr ee n



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
				b e l t c o v e r.
2	C o v e r e d s h e d s a n d	Partially Complied. The const ruction of project is under pro gress. Th e project	S p e c i f i c C o n	Th e u n i t h a s c o n s t r u c

S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	to e w a l l s a r e p r o v i d e d f o r r a w	proponen t has con structed c ommon r aw materi al storage yard with concrete flooring a long with railway si ding. The unit has made pro vision for	di ti o n s (v)	te d g a r l a n d d r a i n a l o n g t h e R M H S



S. No.	Partial compliance points	Observation by RO	Condition No. as per EC dated 16.06.2023	Response by PP
			Specific/General	
	material storage to check any at	garland drain along with RMH S yard. Drainage in the industrial plant is under construction.		yard. Further, concrete drains have been



S. N o.	P ar tial ly c om pl ian ce p oi nt s	Observat ion by R O	C o n di ti o n N o. a s p er E C d at e d 1 6. 0 6. 2 0 2 3	Re sp on se by PP
tri ti o n of ra w m at er ia l, st or ag			S p e ci fi c/ G e n er al	en co m pl et ed at bo th sid es of th e ne



S. N o.	P ar tial ly c om pl ian ce p oi nt s	Observat ion by R O	C o n di ti o n N o. a s p er E C d at e d 1 6. 0 6. 2 0 2 3	Re sp on se by PP
	e sh ed s sh all ha ve ga rl an d dr ai n		S p e ci fi c/ G e n e r al	wl y c on str uc te d pa ve d r oa ds. Ba lan ce



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
	s, m a t e r i a l t r a p s a n d s h a l l b e b u i l		S p e c i f i c / G e n e r a l	c o n c r e t e d r a i n w i l l b e m a d e a l l a l o n g



S. No.	Partially compliance points	Observation by RO	Condition No. as per EC dated 16.06.2023	Response by PP
to concrete platform.			Specific/General	the roads for which work is under pr



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	og re ss. Co nc ret e dr ain s a ll a lo ng th e r



S. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	o a d n e t w o r k w i l l b e c o m p l e t e d b y



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
3	F o l l o w i n g a d	Partially Complied. It was observed th at the ind ustri al pla	S p e c i f i c C	C o m m e n c e m e n

S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	di ti o n a l a r r a n g e m e n t s t o c o n t r o	nt was un der const ruction and road ins ide the pr oject was existing b ut final fin ishing by blacktopp ing/concr eting of t he road is yet to be done.	o n d i t i o n s (x)	t o f p l a n t o p e r a t i o n h a s n o t y e t s t a r t e

S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
	I f u g i t i v e d u s t s h a l l b e p r o v i d e	M e a s u r e s t o b e a d o p t e d i n t h e p r o j e c t, a s r e p o r t e d b y t h e p r o j e c t a r e m e n t i o n e d b e l o w: · W a t e r s p r i n k l		d. D u r i n g c o n s t r u c t i o n p h a s e, r e g u l a r



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	d. a) F o g/ M i s t s p r i n k l e r s a t a l l c o	e r s/ D u s t e x t r a c t i o n s y s t e m		m o b i l e w a t e r s p r i n k l e r s h a v e b e e n d e p l



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
	n v e y o r s p o i n t a n d o n b u l k r a	a s w e l l a s d u s t s u p p r e s s i o	S p e c i f i c / G e n e r a l	o y e d t o a r r e s t f u g i t i v e e m i s s i o n d u r i n



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	w m a t e r i a l s t o r a g e a r e a (a t t h e t r	n s y s t e m a r e b e i n g i n s t a l l e		g v e h i c l e m o v e m e n t. I t h a s b e e n



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	an s f e r p o i n t s) l i k e l o n O r e, C	d. · Road t r a n s p o r t o f m a t e r i a l s		en s u r e d t h a t r a w m a t e r i a l s f r o m R M



S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	o a l a n d f o r F l y A s h a n d s i m i l a	w a s b e i n g c a r r i e d o u t b y c		H S y a r d t o r e s p e c t i v e p r o c e s s u n i t



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
	r s o l i d s t o r a g e a r e a s. b) P r o p e r	o v e r e d t r u c k s. P r o j e c t p r o p o n e n t s s t a t e d t h a t W h e e l w a s h i n g s	S p e c i f i c / G e n e r a l	w o u l d b e t r a n s p o r t e d t h r o u g h c l o s e d



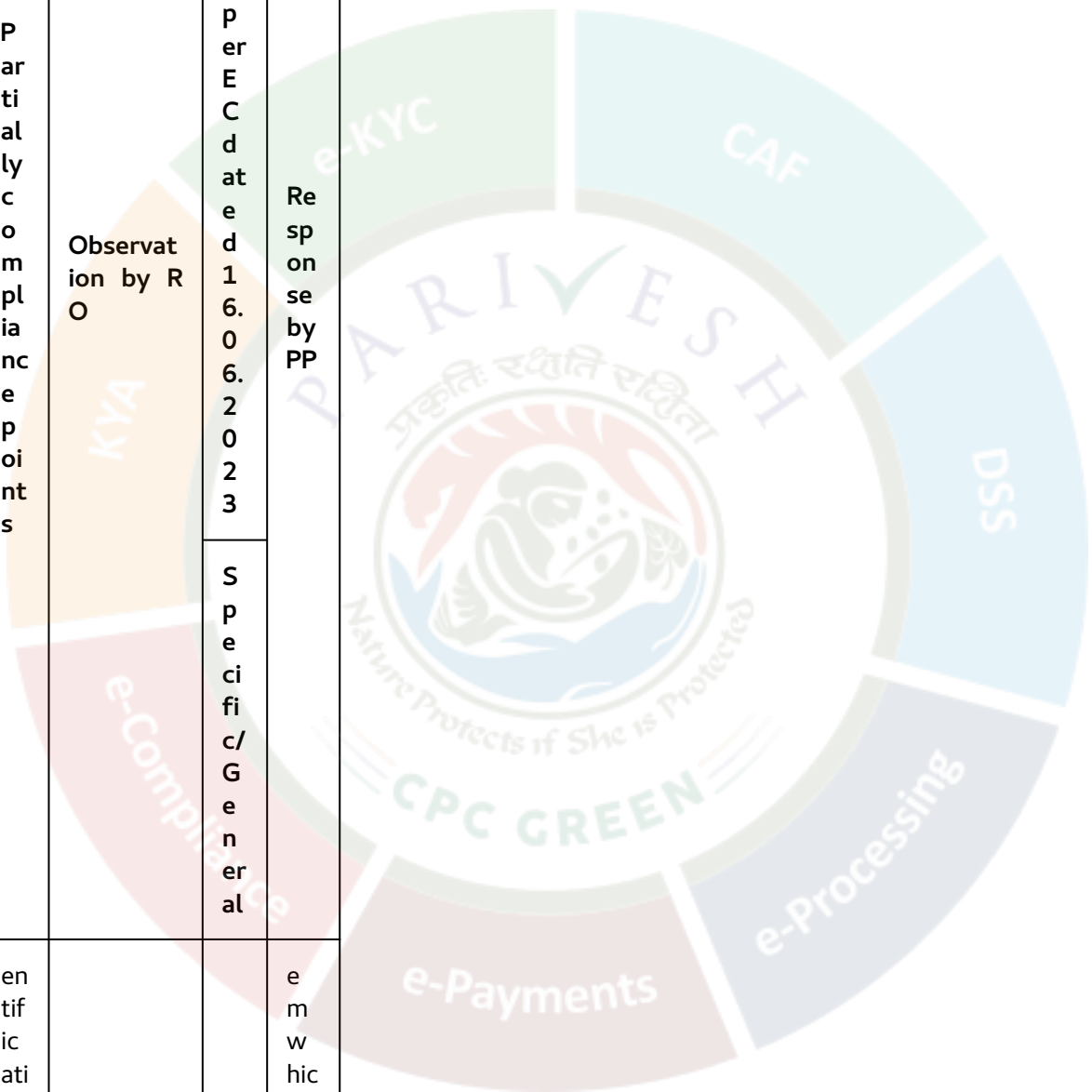
S. N o.	P ar tial ly c om pl ian ce p oi nt s	Observat ion by R O	C o n di ti o n N o. a s p er E C d at e d 1 6. 0 6. 2 0 2 3	Re sp on se by PP
	C over ed ve hi cl e sh all be us ed w hil	system wo uld be pr ovided.	S p e ci fi c/ G e n e r al	co nv ey or s. Th e un it ha s p ro po se d f



S. N o.	P ar tial ly c om pl ian ce p oi nt s	Observat ion by R O	C o n di ti o n N o. a s p er E C d at e d 1 6. 0 6. 2 0 2 3	Re sp on se by PP
	e tr an sp or t of m at er ial s. E C Id		S p e ci fi c/ G e n er al	or ins tal lat io n of w he el wa shi ng sy st



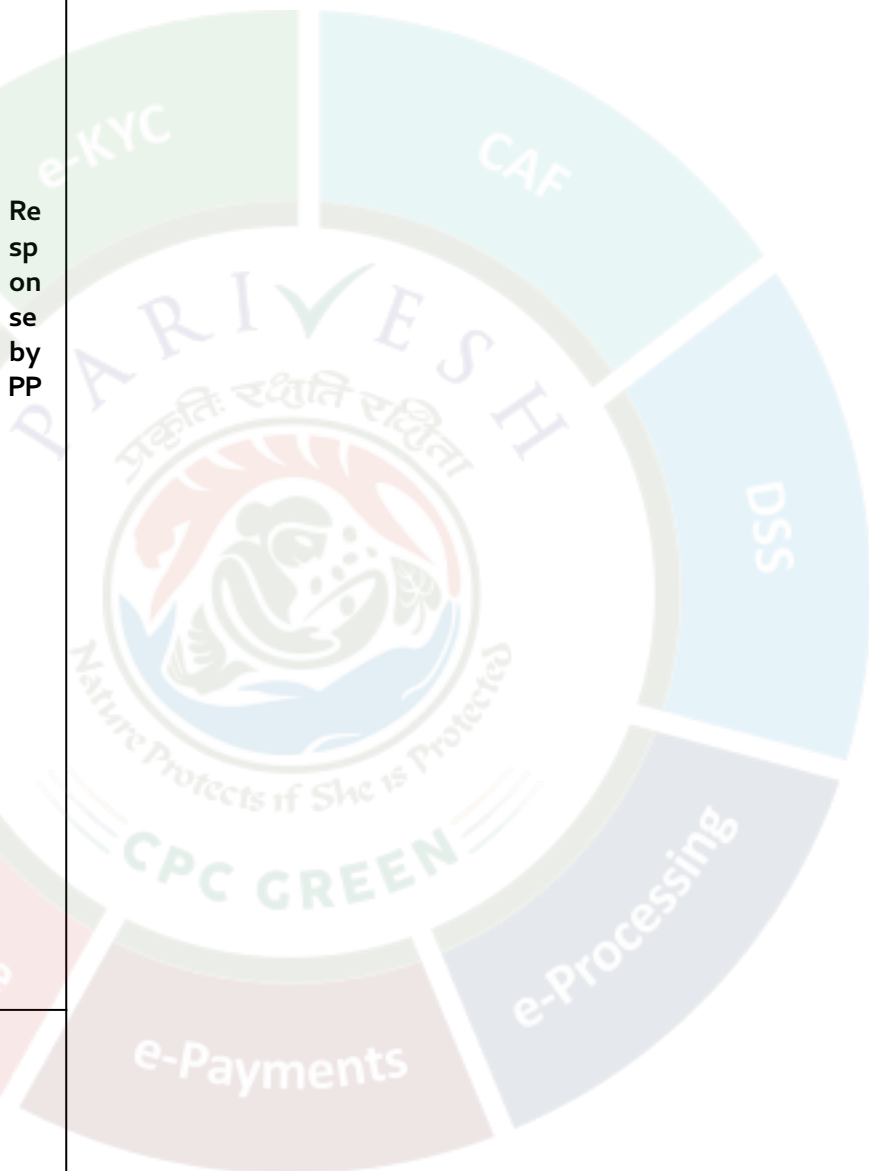
S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
	en t i f i c a t i o n N o. - E C 2 2 A 0 0		S p e c i f i c / G e n e r a l	e m w h i c h w i l l b e c o m p l e t e d b y 3



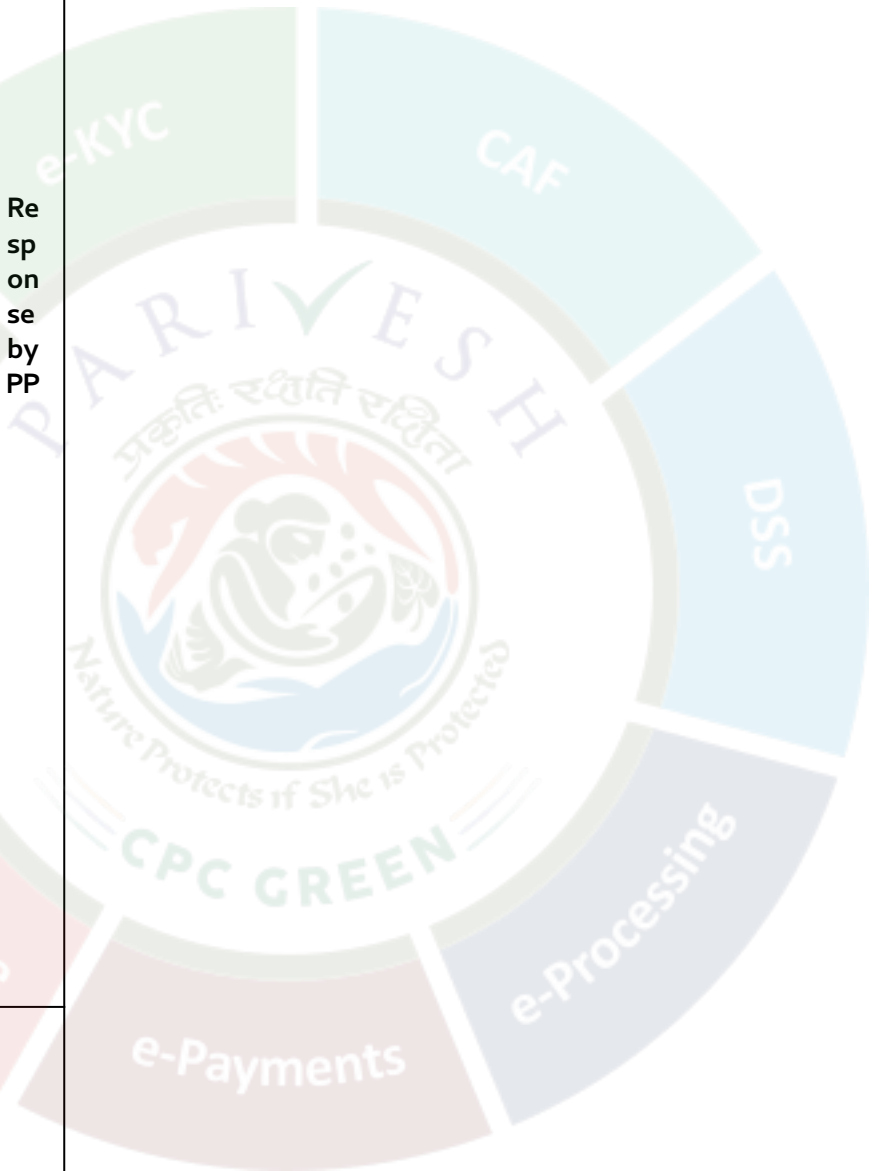
S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	8 O R 1 8 2 8 2 5 F i l e N o. - I A-			1. 0 6. 20 26



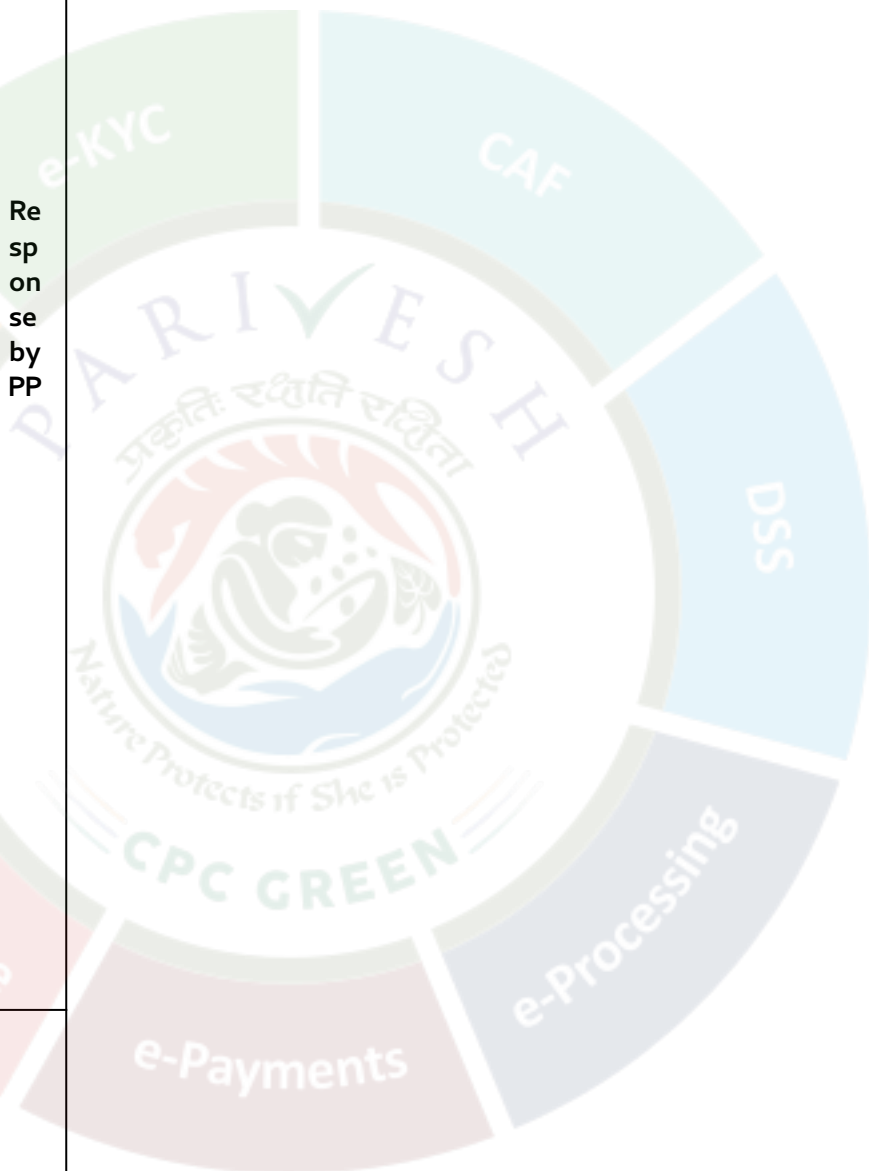
S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
J-110111/281/2007-I A-				



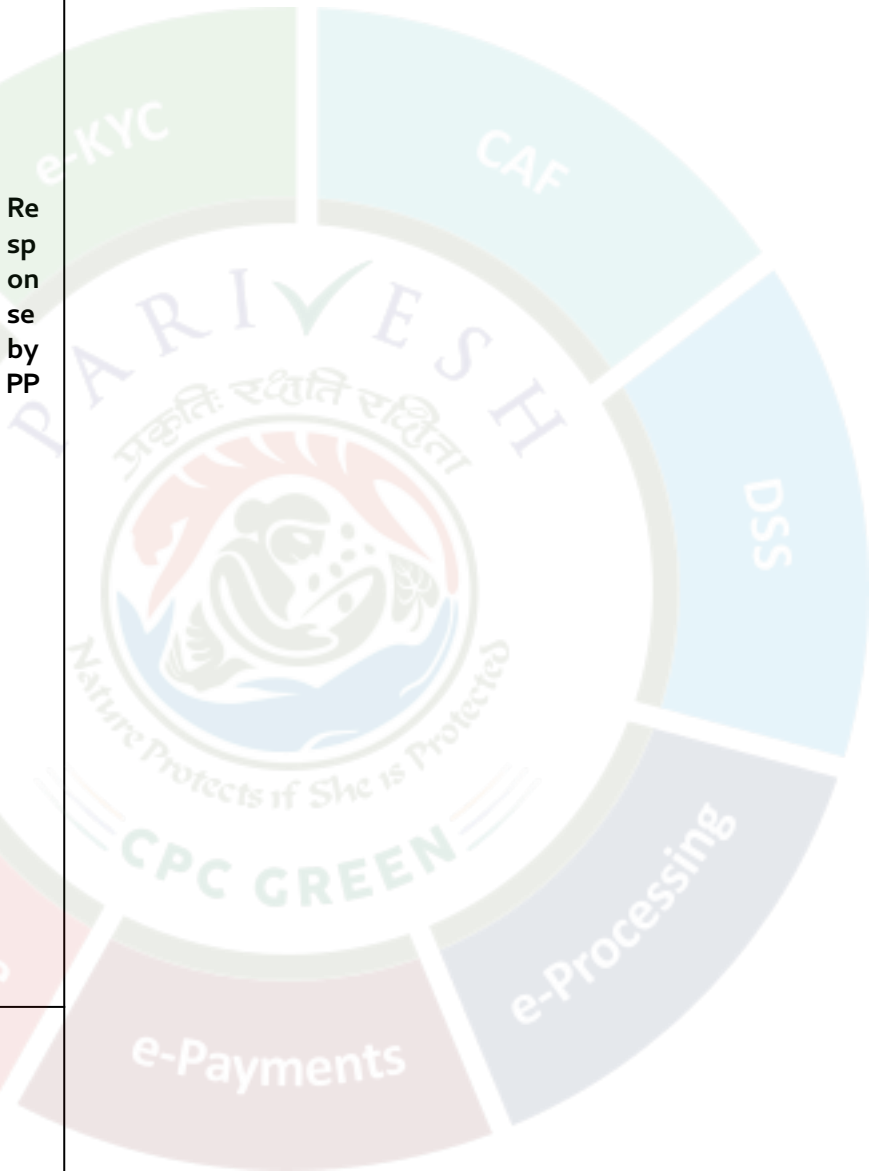
S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
II(I) D a t e o f I s s u e E C- 0 1/ 0 6/			S p e c i f i c/ G e n e r a l	



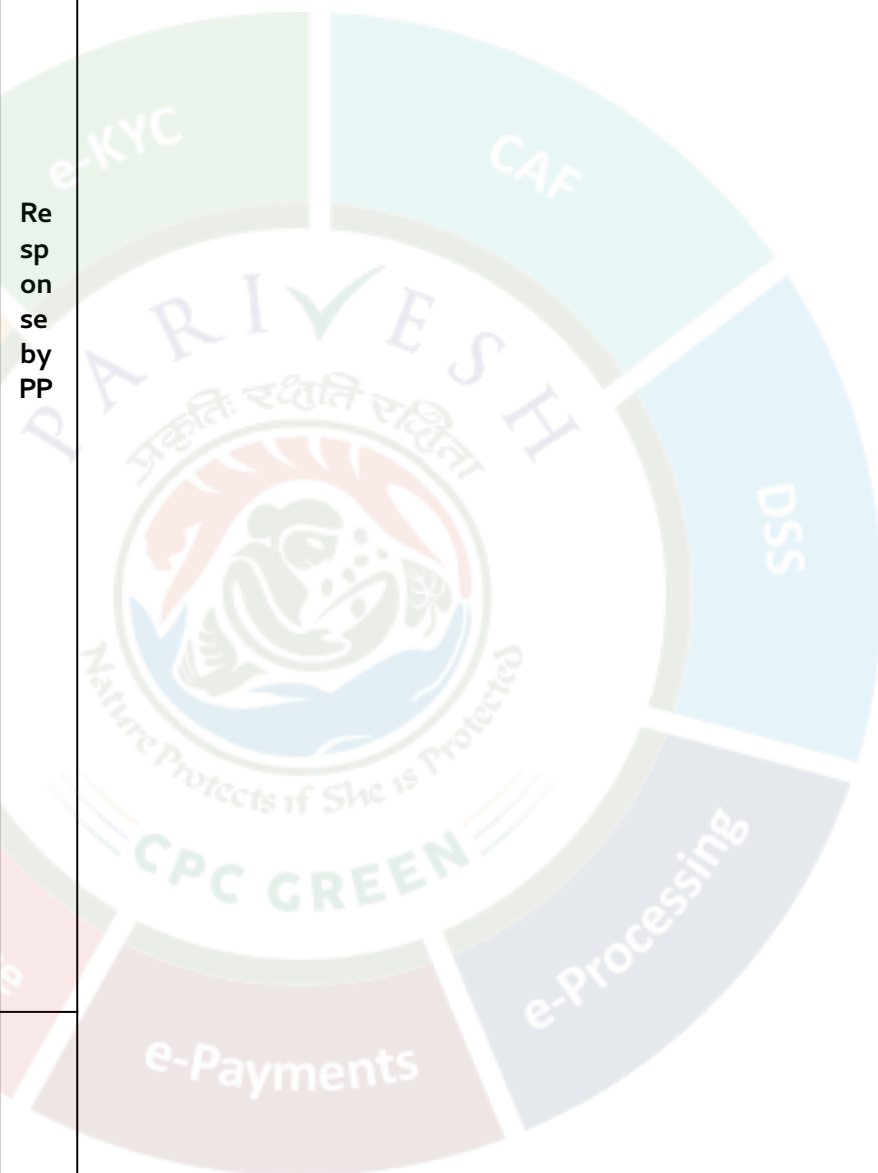
S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
2022. Wheel was h i n g m e c h a			S p e c i f i c / G e n e r a l	



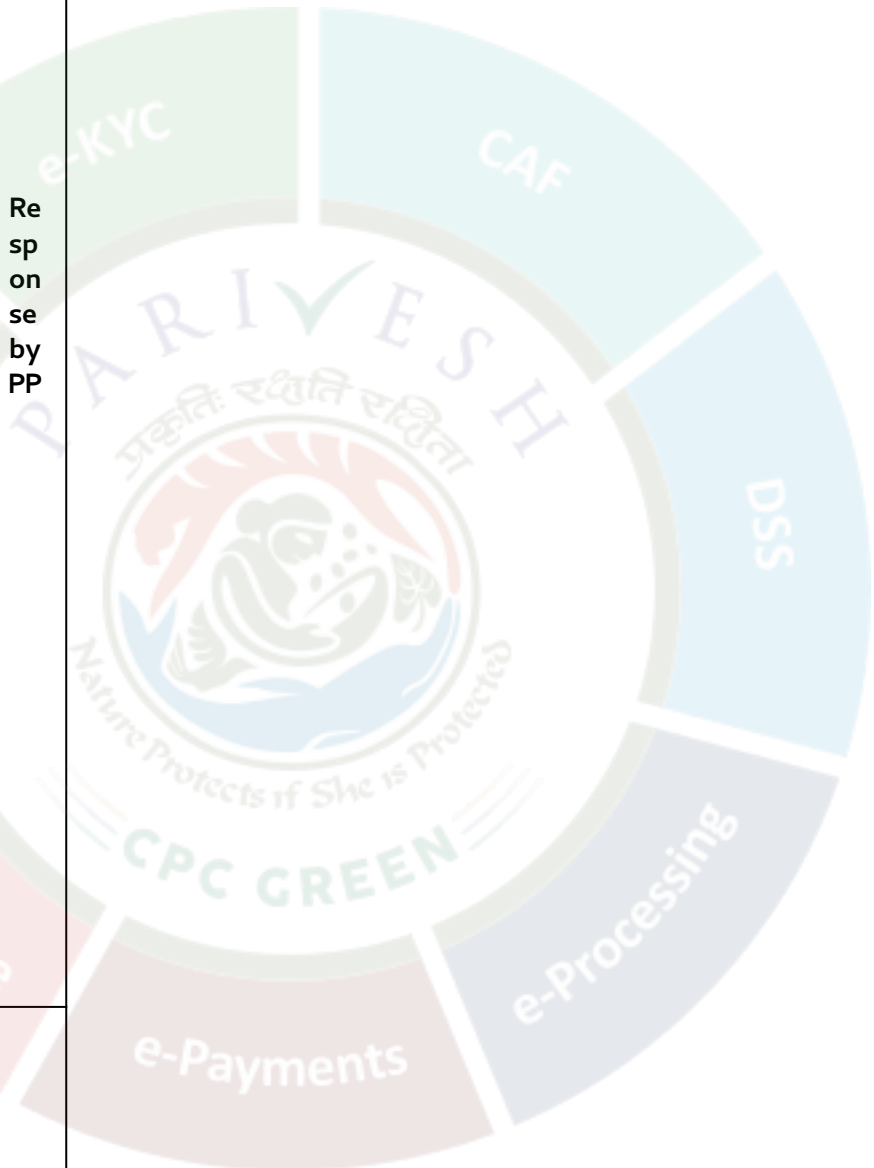
S. N o.	P ar tial ly c om pl ian ce p oi nt s	Observat ion by R O	C o n di ti o n N o. a s p er E C d at e d 1 6. 0 6. 2 0 2 3	Re sp on se by PP
ni s m s sh all be pr ov id ed in th e en			S p e ci fi c/ G e n e r al	



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
tr y a n d e x i t g a t e s w i t h a c o m p l			S p e c i f i c / G e n e r a l	



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
4	et e r e c i r c u l a t i o n s y s t e m.	Partially	S	M



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	l i n t e r n a l r o a d a n d c o n n e c t i n g	Complie d. The proje ct is unde r constru ction stag e. During the inspe ction, it w as observ ed that th e internal roads wer e there b ut need t	p e c i f i c C o n d i t i o n s (x i)	a j o r r o a d s w i t h l a r g e r w i d t h i n s i d e t h

S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	road from project site to main	to be properly leveled and black topped/made of concrete. The internal and connective roads are being constructed. Parts of internal ro		plantation premises have been paved t



S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	h i g h w a y s h a l l b e d e v e l o p e d a n d	a d s a r e c o n c r e t e d, a n d b a l a n c e i s a s s u r e d t o b e c o n s t r u c t e d. T h e u n i t h a s m a d e p r o v i s i o n s f o r s e p a r a t e e n t r y a n d e x i t g a t e s. I t i s s u b m i t t e d b y		o a r r e s t s o i l e r o s i o n a n d d u s t p o l l u t i o

S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
	m a i n t a i n e d w i t h s u i t a b l e M i l l i o	t h e p r o j e c t p r o p o n e n t s t h a t n e c e s s a r y m e a s u r e s w o u l d b e t a k e n t o m a i n t a i n t h e t r a f f i c l o a d f o r t h e p r o p o s e d p r o j e c t.	S p e c i f i c / G e n e r a l	n. F u r t h e r, t h e i n t e r n a l c o n n e c t i n g r o a



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
	n A x l e S t a n d a r d (M S A) a s p e r t h e		S p e c i f i c / G e n e r a l	ds wil l b e p a v e d a f t e r g e t t i n g p r o p e r



S. N o.	P ar tial ly c om pl ian ce p oi nt s	Observat ion by R O	C o n di ti o n N o. a s p er E C d at e d 1 6. 0 6. 2 0 2 3	Re sp on se by PP
traf fic lo ad ue to ex ist in g an d pr			S p e ci fi c/ G e n e r al	ac ce ss to th e r oa d as co ns tru cti on w



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
	o p p o s e d p r o j e c t.		S p e c i f i c / G e n e r a l	o r k h a s n o t b e e n c o m p l e t e d y e t. W



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	e u n d e r t a k e t o c o m p l e t e t h e w o r k i n



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	g p a v i n g o f a l l r o a d s b y 3 1. 0 5. 20



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	2 6. To m a i n t a i n t r a f f i c l o a d, t h e u n



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	it ha s t a k e n f o l l o w i n g s t e p s : T h e u n



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	it h a s m a d e p r o v i s i o n o f o w n c o



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	m m o n C e n t r a l R a w m a t e r i a l h a n d l i n



S. N o.	P ar tial ly c om pl ian ce p oi nt s	Observat ion by R O	C o n di ti o n N o. a s p er E C d at e d 1 6. 0 6. 2 0 2 3	Re sp on se by PP
			S p e ci fi c/ G e n e r al	g s ec tio n wi th pri va te rai lw ay sid in g i



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	n s i d e t h e p l a n t p r e m i s e s a s m a j o r r



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	aw m at er i a l s w i l l b e s o u r c e d t h r o u g h r a i



S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	I n e t w o r k. T h e u n i t h a s m a d e p r



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	o v i s i o n o f c l o s e d c o n v e y o r b e l t s t o t r a



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	ns po rt ra w m at er i a l s f r o m R M H S



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	y a r d t o r e s p e c t i v e p r o c e s s u n i t s t o



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	m i n i m i z e a i r p o l l u t i o n a s w e l l a s t r a f f i



S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	c l o a d. T h e u n i t h a s a l r e a d y m a d e s



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	ep ar at e ga te s f or m an an d m at eri



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	al m o v e m e n t s t o m i n i m i z e t h e t r a f



S. No.	Partial compliance points	Observation by RO	Condition No. as per EC dated 16.06.2023	Response by PP
			Specific/General	
				file load at site.
5	G ar la n d dr ai ns	Partially C omplied. During th e visit to t he industr ial plant, i t was not ed that th	W at er q u al it y m	Th e un it ha s m ad



S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	and collection pits shall be provided	e garland drains were being constructed and at many places, drainage needs to be constructed. The project has installed surface runoff treatment	on to ring around the RMHS	e garland drain along the RMHS



S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	ed fo r e a c h s t o c k p i l e t o a r r e s t t h e	nt facility in their pl ant.	n (v)	rd. F u r t h e r, c o n c r e t e d r a i n s h a v e b e e n

S. N o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
run of fin the event of heavy rai			S p e c i f i c / G e n e r a l	co m p l e t e d a t b o t h s i d e s o f t h e n e w l



S. N o.	P ar tial ly c om pl ian ce p oi nt s	Observat ion by R O	C o n di ti o n N o. a s p er E C d at e d 1 6. 0 6. 2 0 2 3	Re sp on se by PP
ns and to check the water pollut			S p e ci fi c/ G e n e r al	y c on str uc te d pa ve d r oa ds. Ba lan ce co



S. No.	Partially compliance points	Observation by RO	Condition No. as per EC dated 16.06.2023	Response by PP
	ion due to surface runoff.		Specific/General	ncrete drain will be made all along th



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	e r o a d s f o r w h i c h w o r k i s u n d e r p r o g



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
			S p e c i f i c / G e n e r a l	re ss. Co nc ret e dr ain s a ll a lo ng th e ne



S. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	t w o r k w i l l b e c o m p l e t e d b y 3 1. 0



S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
				5. 20 2 6.
6	T h e c o m p a n y s h a l l h a v e	Partially Complied. It is submitted by the project proponents that Environment Policy ad	E n v i r o n m e n t M a	T h e u n i t i s h a v i n g c o m m



S l. N o.	P a r t i a l l y c o m p l i a n c e p o i n t s	O b s e r v a t i o n b y R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	R e s p o n s e b y P P
			S p e c i f i c / G e n e r a l	
	a w e l l - l a i d d o w n e n v i r o n m	d r e s s i n g m i t i g a t i o n o f e n v i r o n m e n t i m p a c t / c o m p l i a n c e w i t h l e g a l p r o v i s i o n s a n d m o r e i s u n d e r p r e p a r a t i o n a n d c o p y o f t h e s a m e w o u l d b e s u b	n a g e m e n t (i i)	o n Q u a l i t y, E n v i r o n m e n t, O c c u p a t i o

S. N. o.	P ar t i a l l y c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
	en ta l p o l i c y d u l y a p p r o v e d b y t h	mitted to this office after com pletion.	S p e c i f i c / G e n e r a l	na l, He alt h & Sa fet y p o l i c y i n t h e na



S. N o.	P ar tial ly c om pl ian ce p oi nt s	Observat ion by R O	C o n di ti o n N o. a s p er E C d at e d 1 6. 0 6. 2 0 2 3	Re sp on se by PP
	e B oa rd of Di re ct or s. T he en vir o		S p e ci fi c/ G e n e r a l	m e of Jin da l F e r r o u s L i m i t e d du ly ap



S. N o.	P ar tial ly c om pl ian ce p oi nt s	Observat ion by R O	C o n di ti o n N o. a s p er E C d at e d 1 6. 0 6. 2 0 2 3	Re sp on se by PP
	n m en ta l p oli cy sh o ul d pr es cri		S p e ci fi c/ G e n er al	pr ov ed by He ad of th e Un it w he re it i



S. N o.	P ar tial ly c o m p l i a n c e p o i n t s	Observat ion by R O	C o n d i t i o n N o. a s p e r E C d a t e d 1 6. 0 6. 2 0 2 3	Re s p o n s e b y P P
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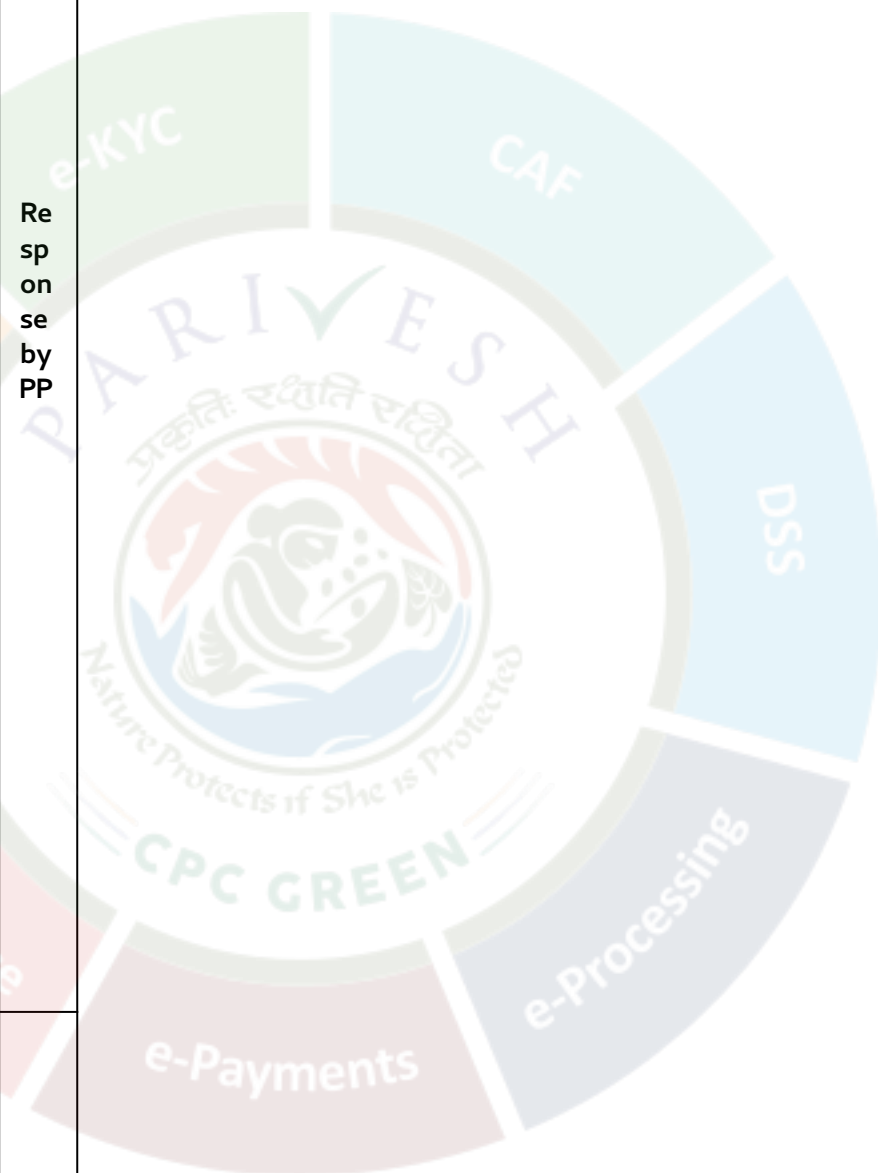
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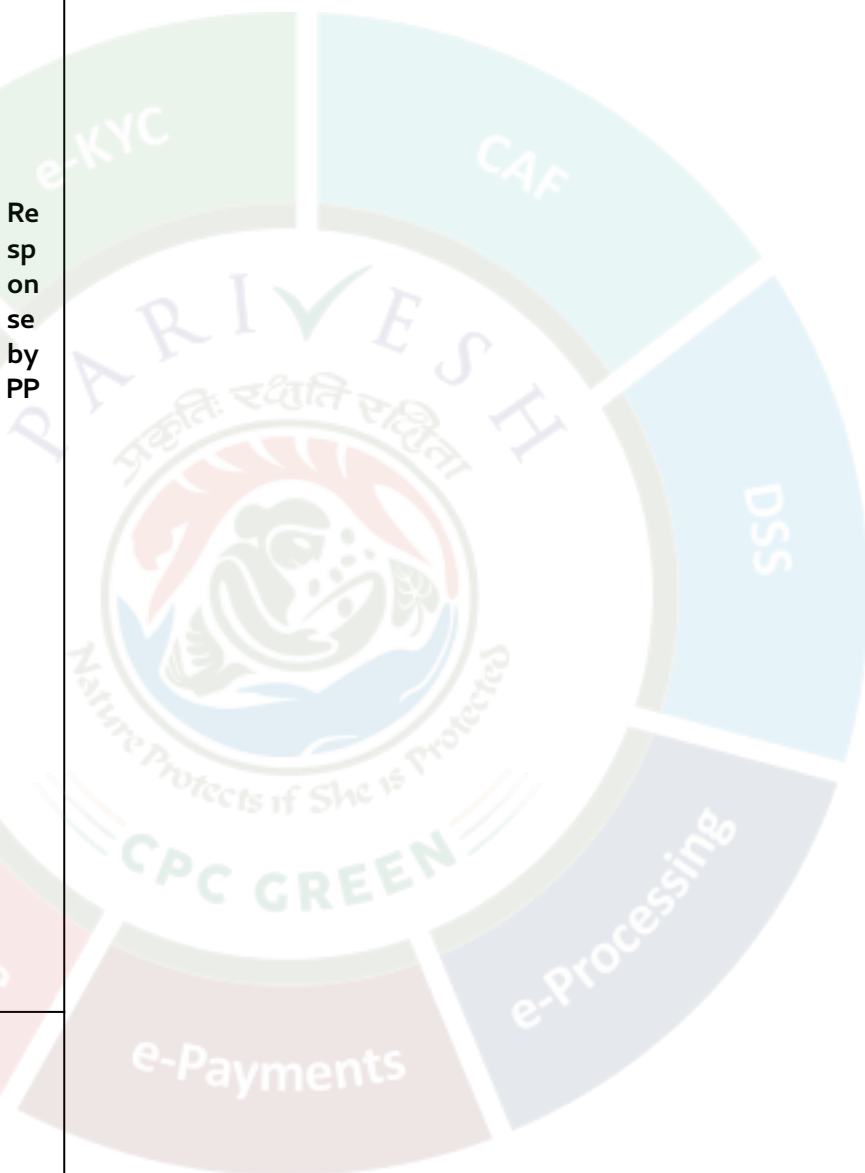
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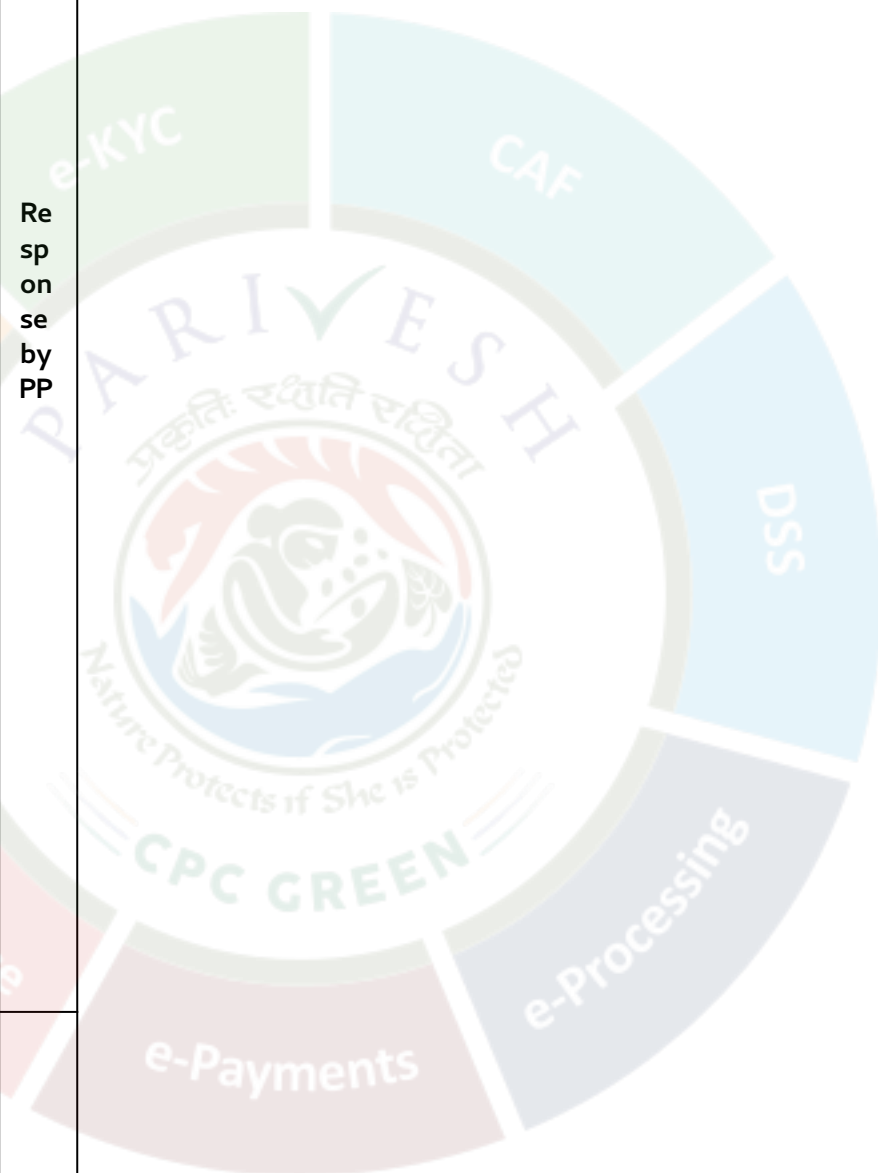
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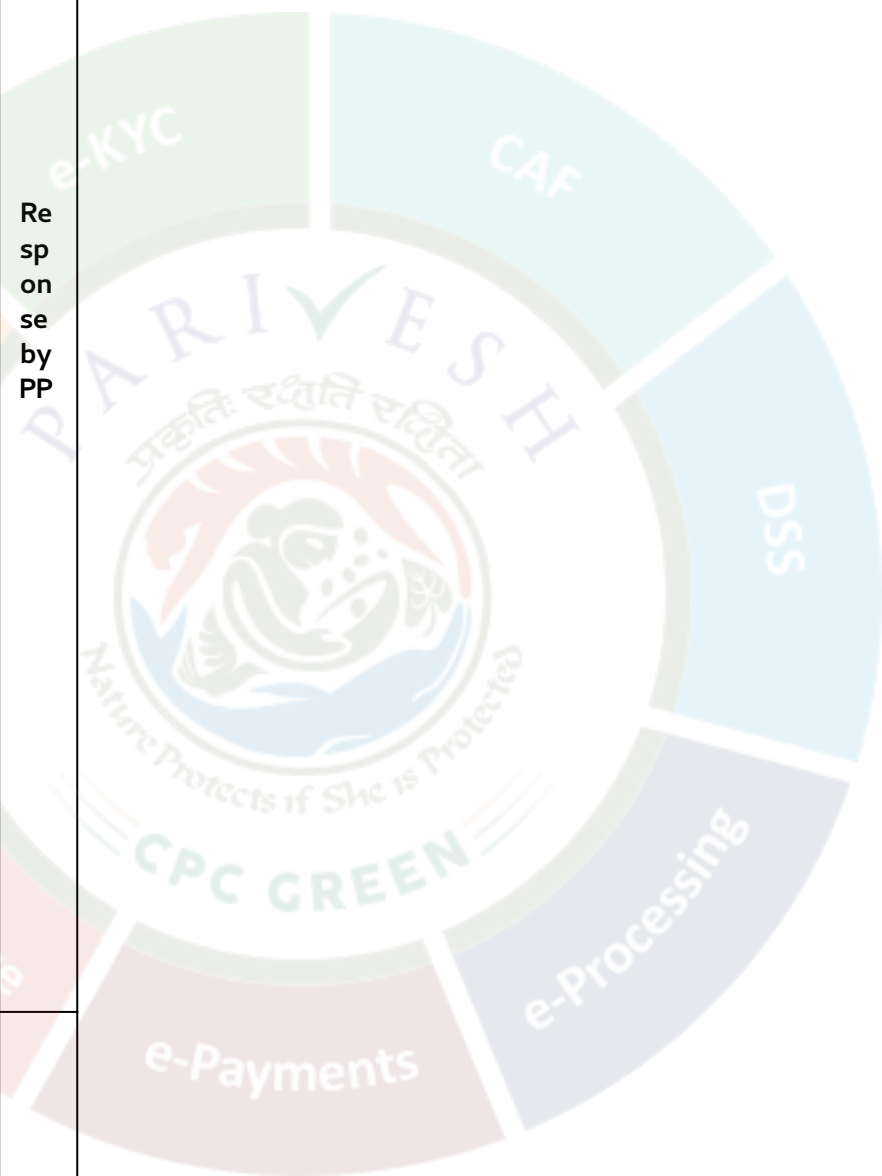
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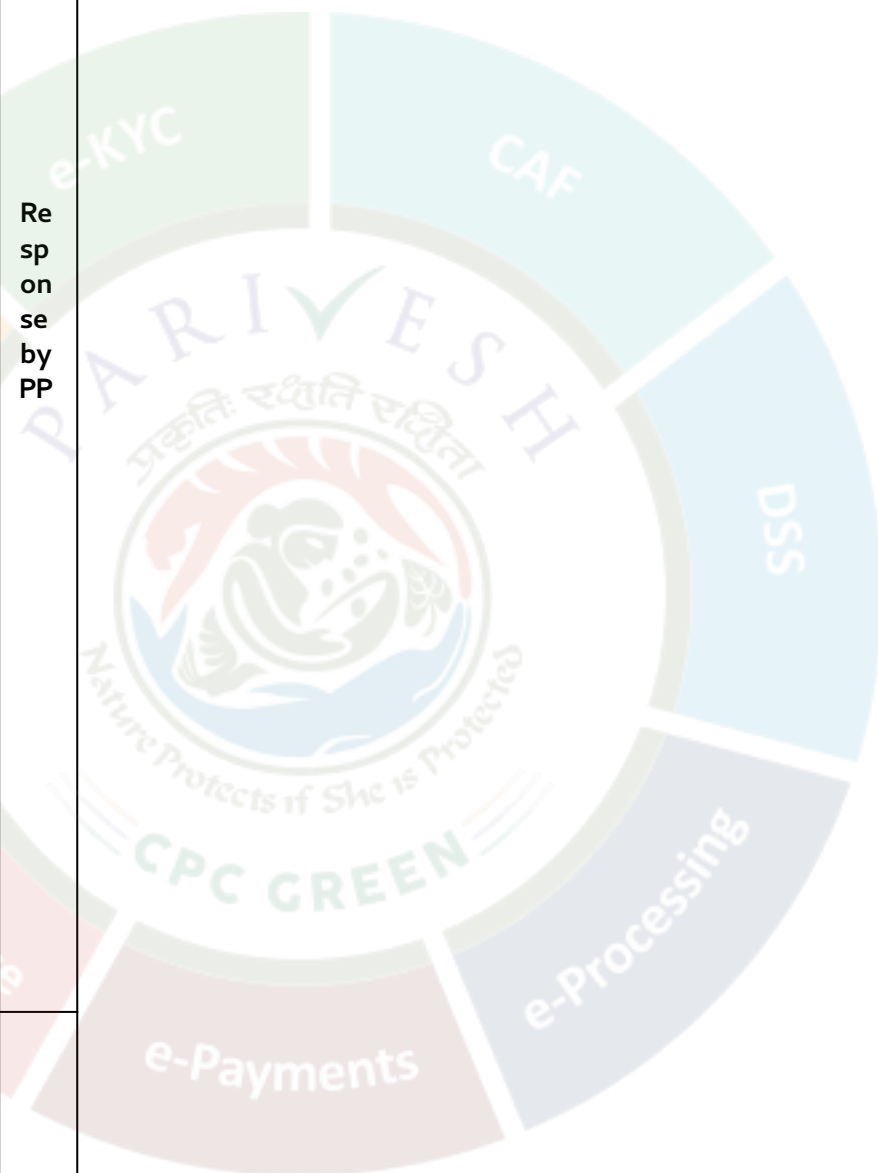
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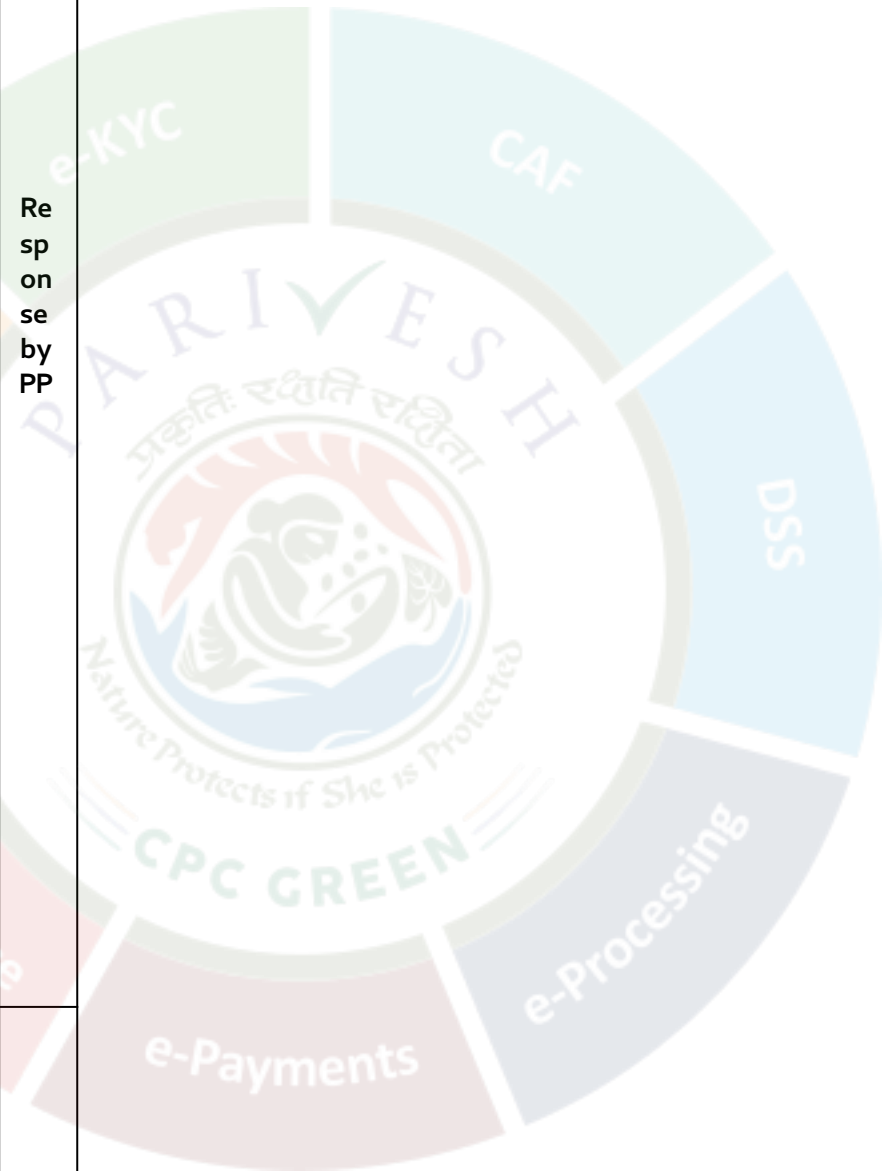
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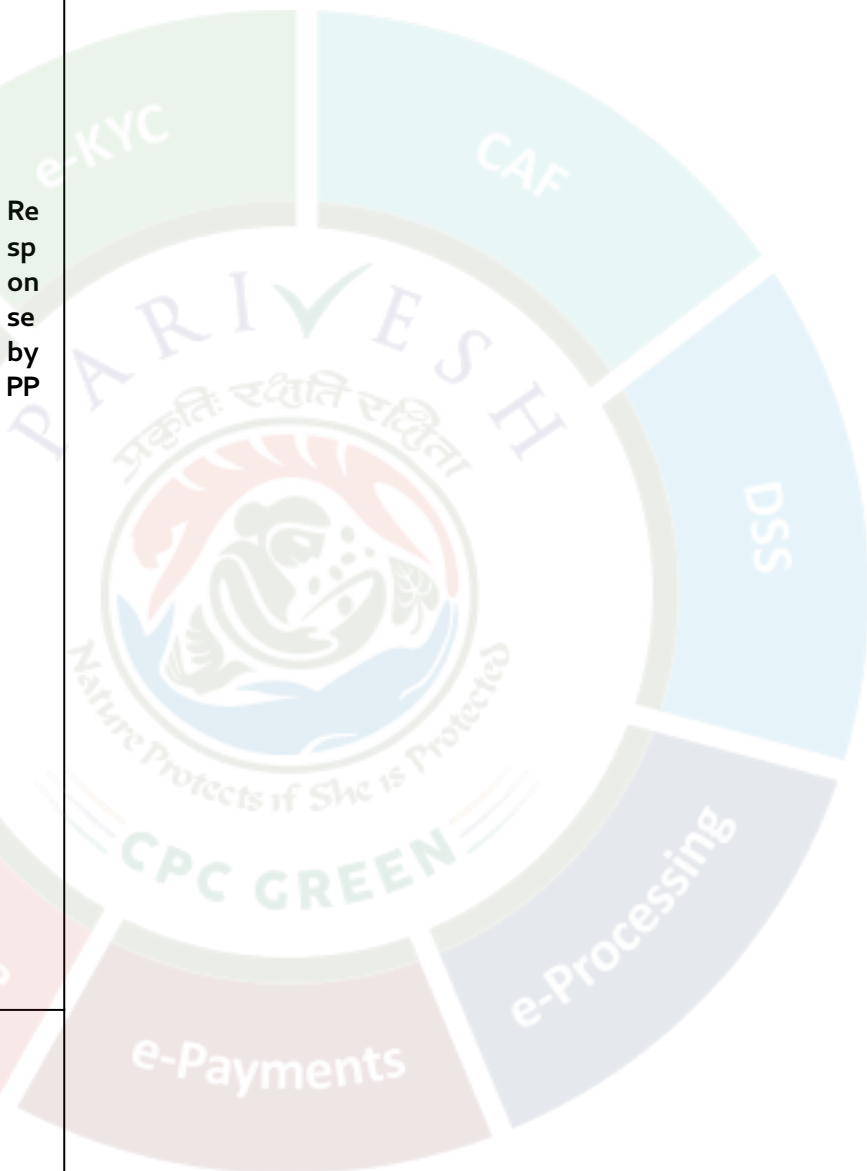
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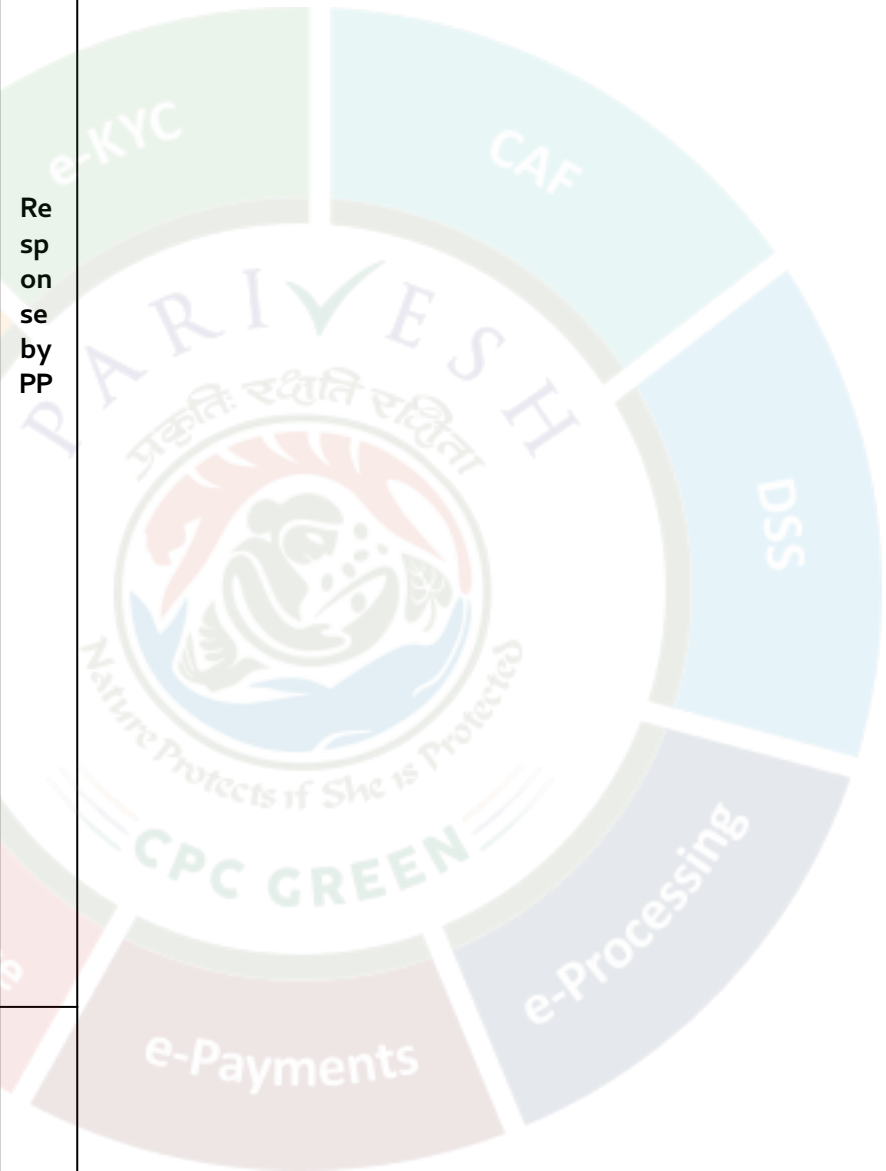
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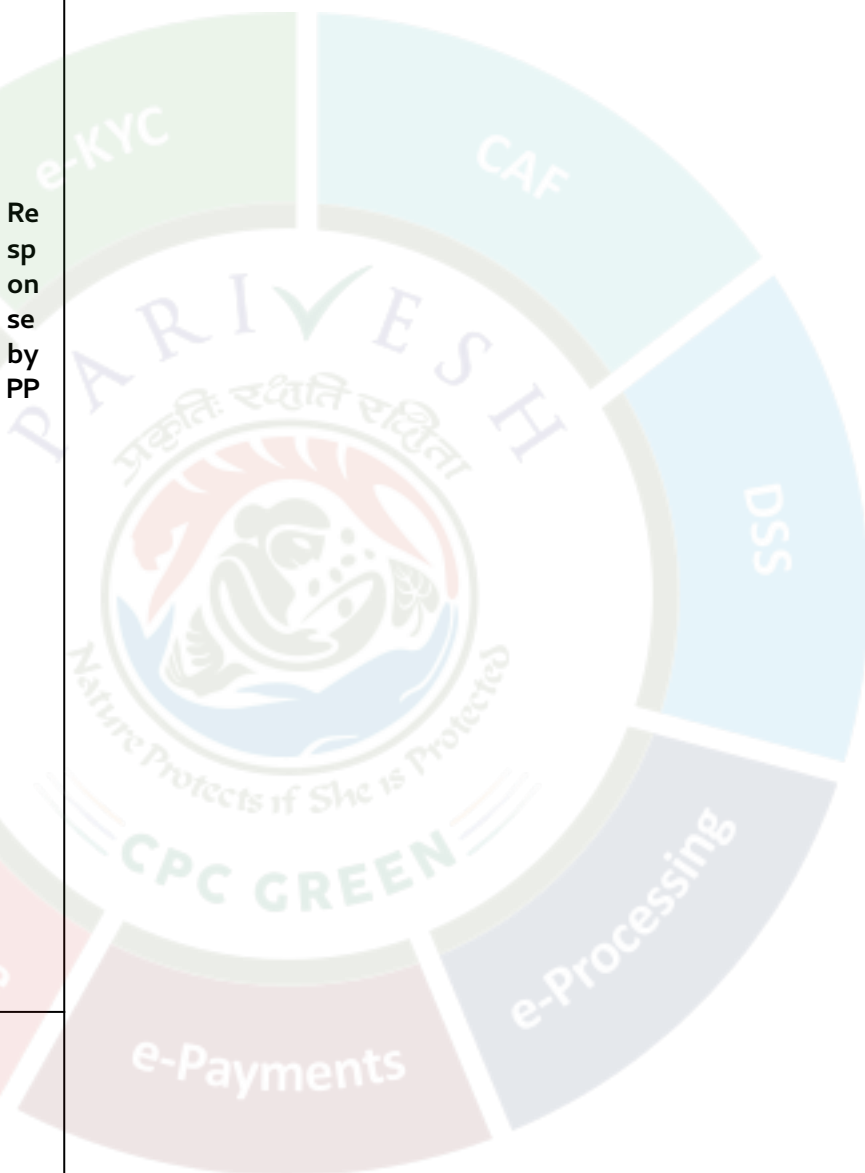
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7	The project proponent	It is submitted by the project proponents vide their letter to this office dated 27.11.2025 that the construction acti	Miscellaneous (vii)	They shall submit the Fi

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	sh all in fo r m th e R e g i o n a l O f f i	vity of the project st arted in A ugust, 20 23 and is still in pro gress. Fin ancial clo sure detai ls are yet to be ann ounced p ost compl etion of c onstructi		na nci al cl os ur e de tai ls aft er ful l fl ed



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	ce as w ell as th e M i n i s t r y, d a t e o f	on of proj ect and is yet to be shared to MoEF& C C.		ge co m p l e t i o n o f th e p r o j e c t. D a t e



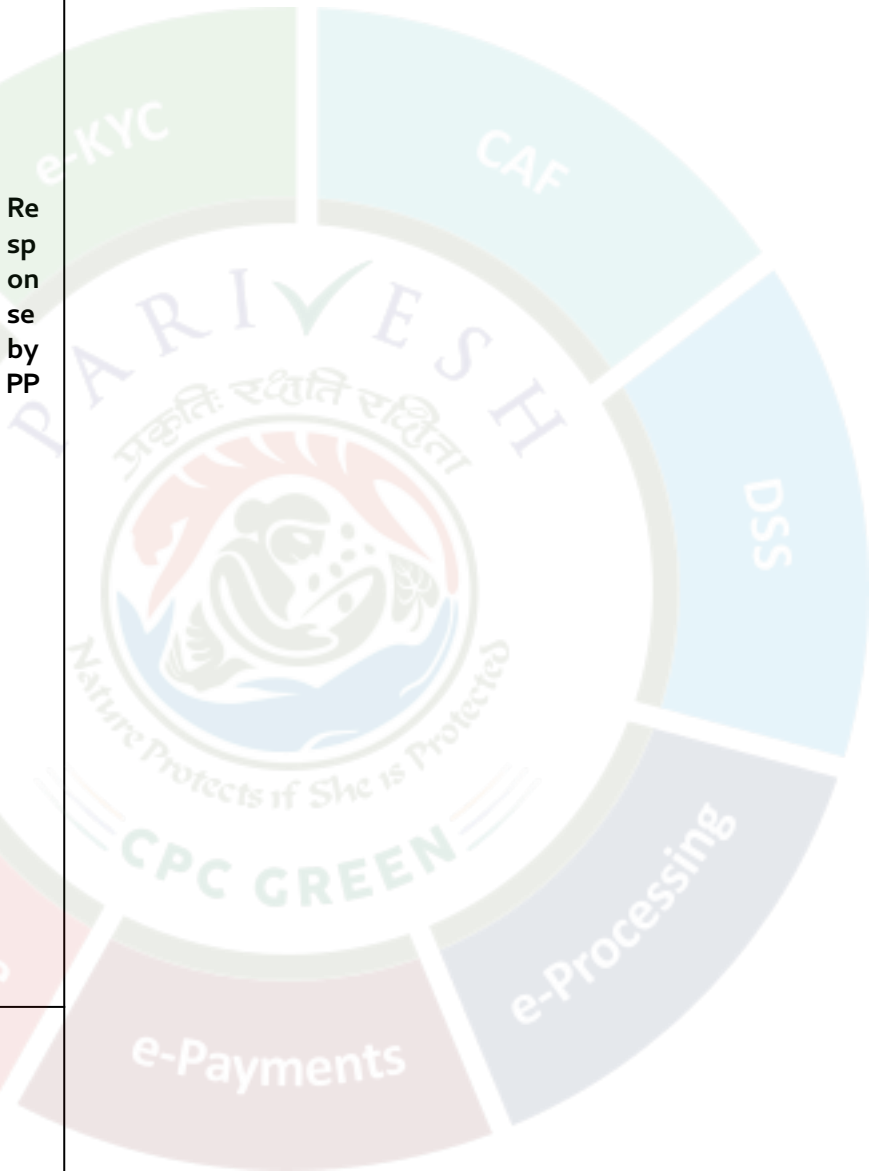
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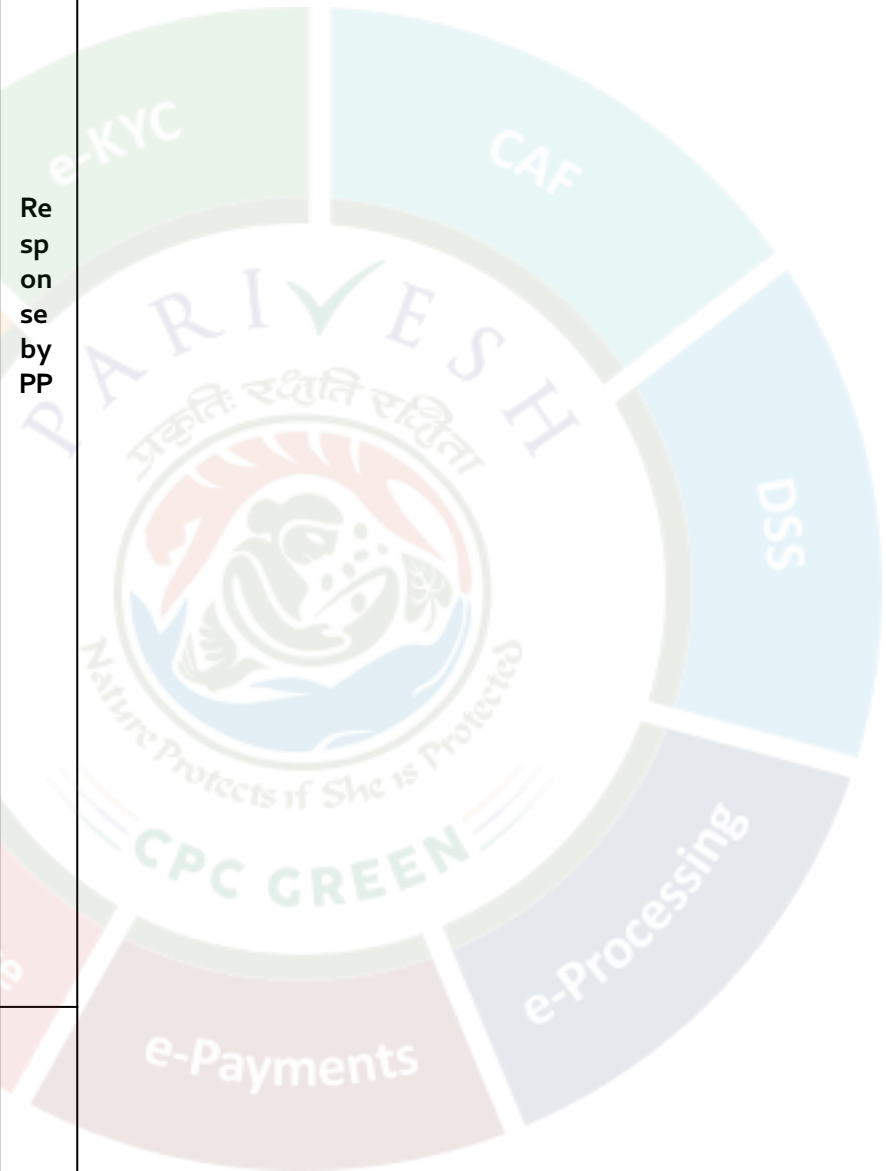
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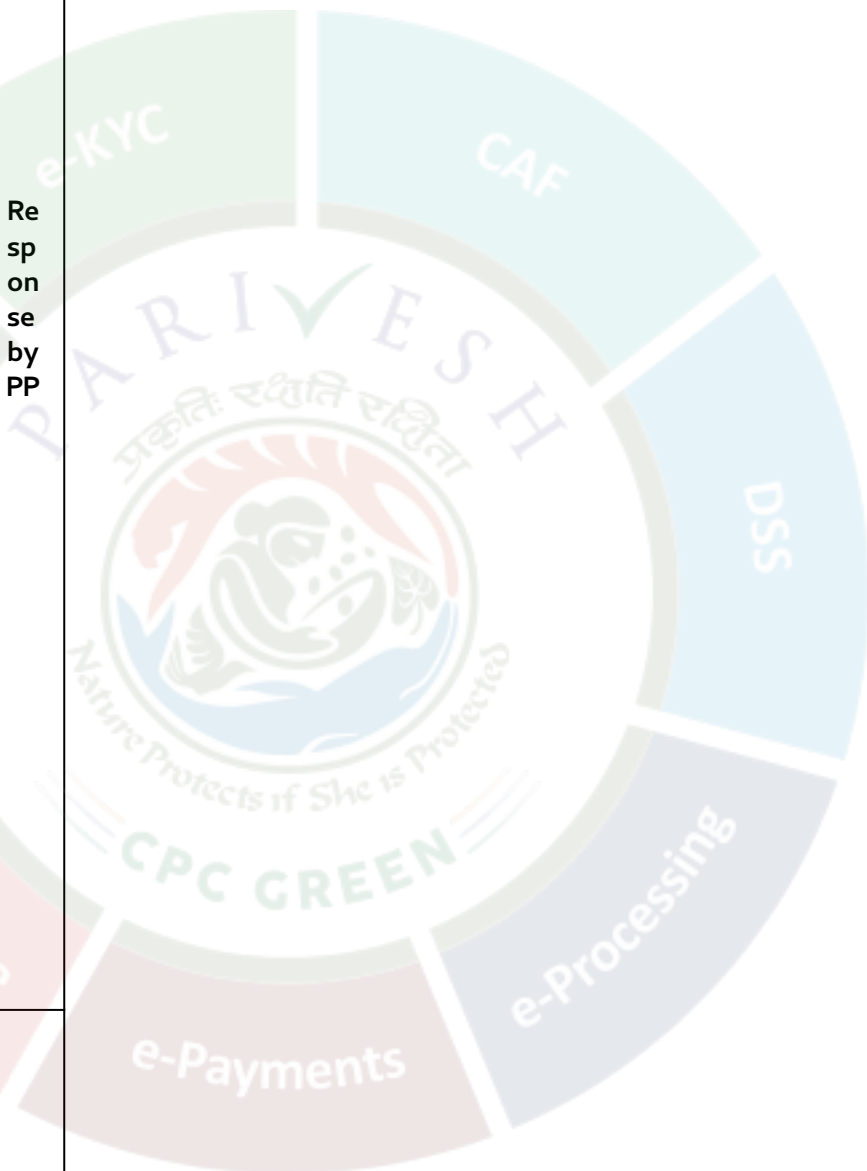
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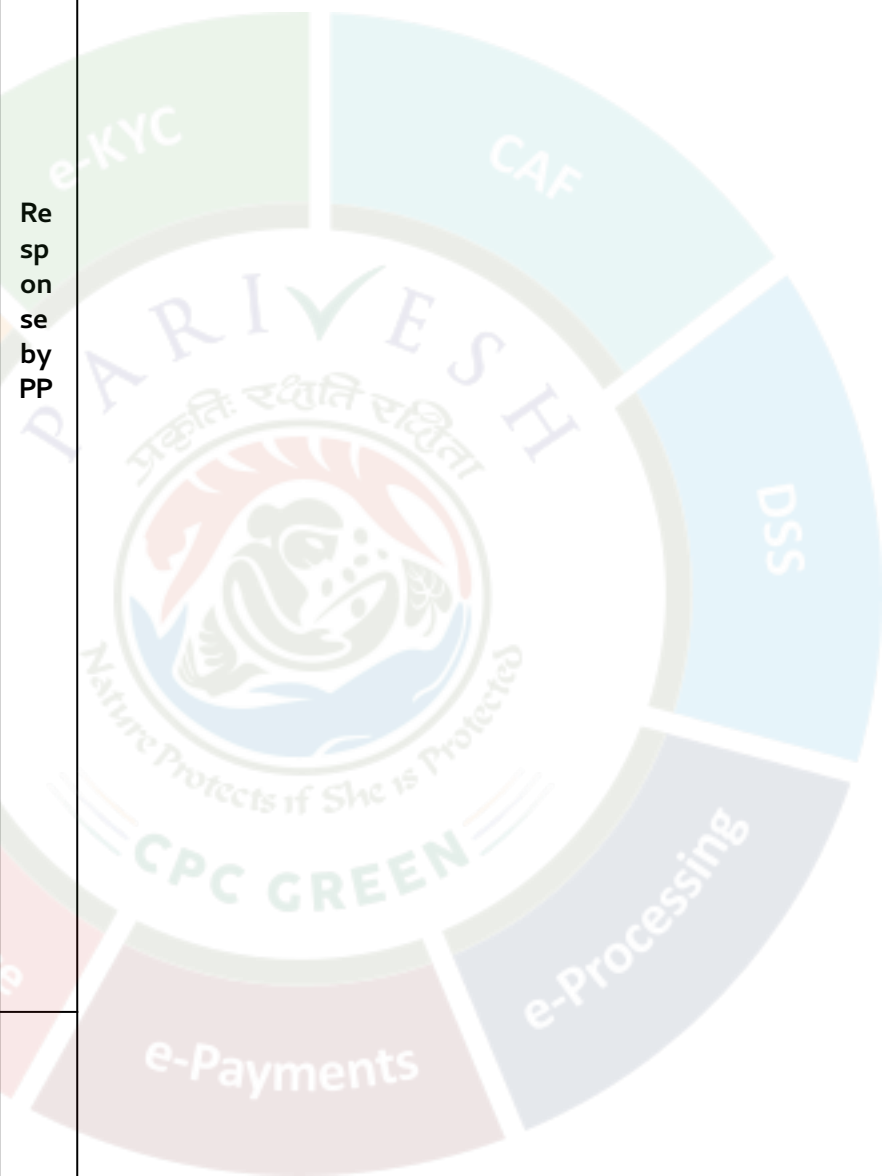
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3.8.3. Deliberations by the committee in previous meetings

N/A

3.8.4. Deliberations by the EAC in current meetings

Deliberations by the Committee

Recommendations of the Committee

3.8.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

3.8.6. Details of Environment Conditions

3.8.6.1. Specific

Specific	
1.	-

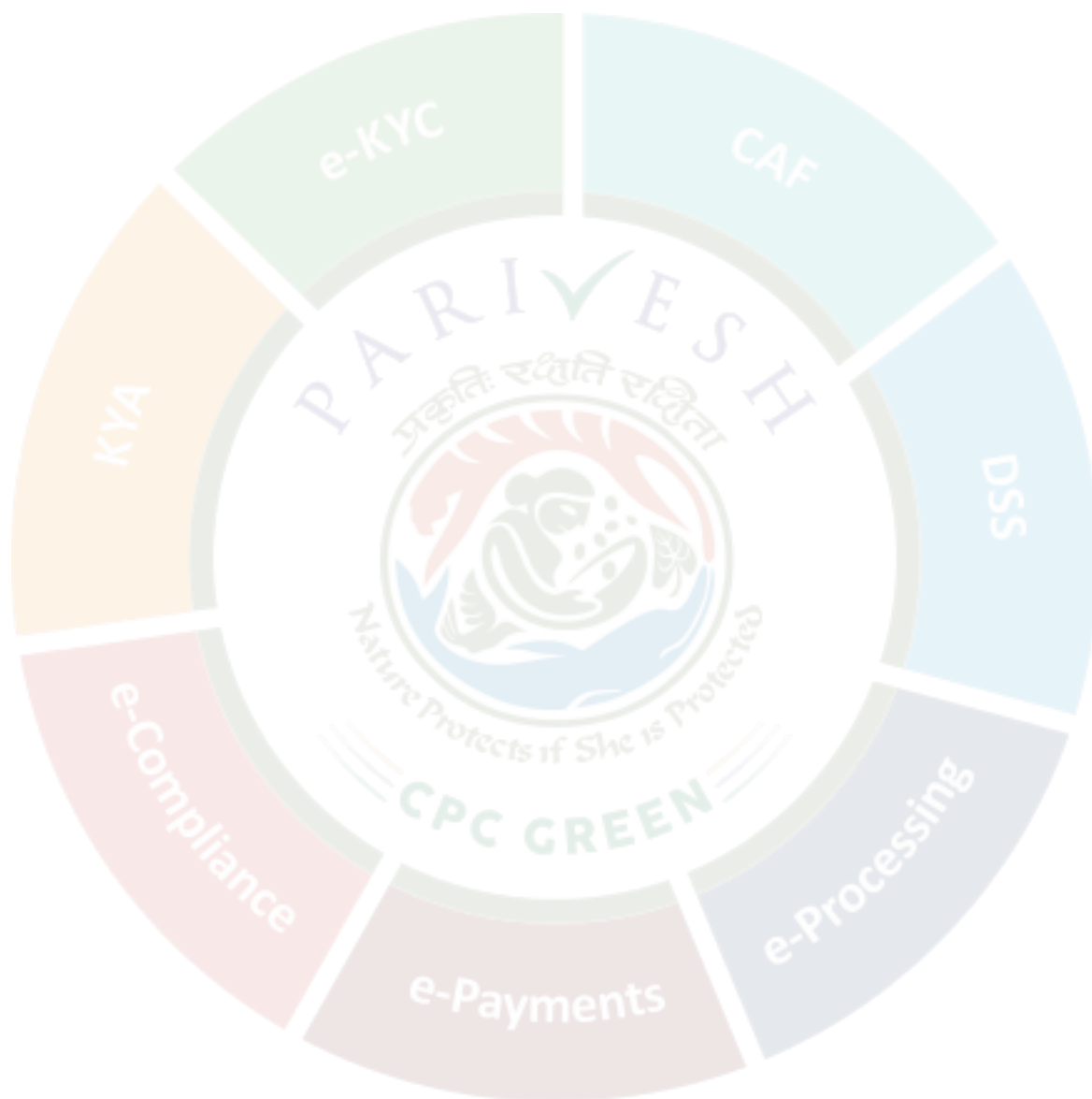
4. Any Other Item(s)

N/A

5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Shri Rajive Kumar	Chairman, EAC	cha*****@gmail.com	Present
2	Dr Dipankar Shome	Member (EAC)	dsh*****@gmail.com	Present
3	Dr S Ranganathan	Member (EAC)	ran*****@gmail.com	Present
4	Dr Ranjit Prasad	Member (EAC)	ran*****@gmail.com	Present
5	Dr E V R Raju	Member (EAC)	raj*****@gmail.com	Present
6	Dr S K Chaturvedi	Member (EAC)	dg@ncbindia.com	Present
7	Shri Dinesh Runiwal	Scientist - F	d.r*****@gov.in	Present
8	Dinesh K Sharma	Member (EAC)	sha*****@yahoo.com	Present
9	Suranjan Sinha	Member (EAC)	sur*****@gmail.com	Present
10	Dr W G Prasanna Kumar	REC Member	wgp*****@gmail.com	Present

11	Dr. Prasoon Gargava	EAC Member - CP CB	pra*****@nic.in	Absent
12	Dr. B.Ravichandran	EAC Member - NI OH	rav*****@gov.in	Present (1st Ha lf)
13	Dr. Sandip Mukhopadh yay	EAC Member - Mo ES	san*****@gov.in	Absent



PPs may raise their request for factual corrections or otherwise within three (3) days of the issuance of MOM enabling the EAC to undertake corrections, if required.

**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IA DIVISION-INDUSTRY-1 SECTOR)**

Dated: 19-01-2026

Zero Draft sent to EAC: 15-01-2026

Approval by Chairman: 19-01-2026

Uploading on PARIVESH: 19-01-2026

MINUTES OF THE 19TH EXPERT APPRAISAL COMMITTEE (INDUSTRY-1 SECTOR) MEETING HELD ON 9TH JANUARY, 2026

Venue: Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003 through VC Mode

Time: 10:30 AM onwards

DAY 1 : JANUARY 9, 2026 [FRIDAY]

(i) Opening Remarks by the Chairman, EAC

Shri Rajive Kumar, Chairman EAC welcomed all the members of the Committee and appreciated the efforts of the Ministry's Team (Industry-1 Sector) for preparation and uploading the Agenda of the EAC meetings and draft record of discussion very scientifically, systematically, transparently and timely on Parivesh Portal.

- (ii) The Member Secretary informed the committee that there is substantial reduction in the pendency of the projects. The increasing use of various decision-making tools such as KYA, GIS based DSS is assisting us to make quick and transparent decisions. The committee took note of it and acknowledged the efforts of the ministry team.
- (iii) The EAC noted that there may be some unintentional, minor errors in uploaded Minutes of Meeting on the PARIVESH PORTAL due to the voluminous nature of Minutes of Meeting. EAC decided that PPs may raise their issues (if any) for corrections within three

days of the issuance of MOM enabling the EAC to consider the request (if required) in its next meeting.

(iv) **Confirmation of the Minutes of the 18th meeting of the EAC for Industry-I sector held on 22nd – 23rd December, 2025 at MoEF&CC through VC Mode.**

The EAC meeting for Industry-I sector was held on 22nd -23rd December, 2025 through VC Mode. The EAC, having taken note that final minutes were issued after incorporating comments offered by the EAC (Industry-1 Sector) members on the minutes of its 18th meeting of the EAC for Industry-I sector held on 22nd -23rd December, 2025 conducted through VC Mode, and noted that requests for modification/ factual correction were received as below:

Agenda 18.3 : Expansion of Asbestos & Non Asbestos Cement Sheets and Pressure Pipes unit from 2,88,000 MTPA to 3,36,000 MTPA [Phase II-remaining 20% out of total 40% under para 7(ii) (a) of EIA Notification, 2006 by M/s. ARL Infratech Ltd. located at Khasra Nos. 718, 719, 720, 721, 885/722 & 717(part), Village – Dahmi Khurd, Bagru, Tehsil Sanganer, District Jaipur, Rajasthan- Consideration of EC.

[Proposal no.: IA/RJ/IND1/557009/2025: File No. IA-J-11011/343/2007-IA-II(IND-I)]
[Consultant: Gaurang Environmental Solutions Pvt. Ltd; Valid upto: 07.12.2026]

PP vide email dated 01-01-2026 submitted that the MoM at Para 18.3.24, Point no. 12 mentioned that –

Existing Water requirement is 104.3 m³/day (Fresh-87.5 m³/day, Recycled-16.8 m³/day), fresh water requirement is obtained from Ground water supply. The water requirement for the proposed expansion project – Phase –II is estimated as 14.3 m³/day (Fresh :12.5 m³/day and recycled 1.8 m³/day). 75 m³/day of fresh water requirement will be obtained from the Ground water and 25 m³/day of fresh water requirement will be obtained from Stored Rain water and the remaining requirement of 18.6 m³/day will be met from the Recycled water. The EAC opined that the PP secure the required approval from the appropriate authority.

However, PP submitted that the the total water requirement is 118.6 m³/day, out of which, 75m³/day of fresh water is sourced from groundwater, 25m³/day water requirement met from stored rainwater, and the remaining 18.6m³/day from recycled water. Permission for groundwater abstraction of 75 KLD has already been obtained from the Central Ground Water Authority (CGWA) vide letter No. CGWA/NOC/IND/RJ/2024/278/R-3/3, which is valid up to 31.12.2026.

The EAC examined the PP's request, and noted that the MoM already mentions Existing Water requirement is 104.3 m³/day and Phase-II requirement as as 14.3 m³/day, totalling to 118.6 m³/day. Further, all other aspects mentioned in the PP's fresh submission are also incorporated. However, considering PP's intent to mention total quantity, EAC

agreed to add an additional statement to the existing deliberations at Point no. 12 of MoM, which is highlighted, as given below:

*Existing Water requirement is 104.3 m³/day (Fresh-87.5 m³/day, Recycled-16.8 m³/day), fresh water requirement is obtained from Ground water supply. The water requirement for the proposed expansion project – Phase –II is estimated as 14.3 m³/day (Fresh :12.5 m³/day and recycled 1.8 m³/day). **Accordingly, the cumulative water requirement would be 118.6 m³/day, out of which, 75 m³/day of fresh water requirement will be obtained from the Ground water and 25 m³/day of fresh water requirement will be obtained from Stored Rain water and the remaining requirement of 18.6 m³/day will be met from the Recycled water. The EAC opined that the PP secure the required approval from the appropriate authority.***

Agenda 18.7 - Proposed expansion in manufacturing of Secondary Metallurgical Stainless Steel Billets Plant by M/s Chandan Steel Ltd. (Unit-1) located at Plot No.: 32, 33B, 34, 35, 36, GIDC Umbergaon, Tal: Umbergaon, District Valsad, Gujarat- Consideration of EC.

[Proposal no.: IA/GJ/IND1/560377/2025: File No. J-11011/479/2011-IA-II-(I)]
[Consultant: Eco Chem Sales & Services; Valid upto: 03.03.2027]

PP vide email dated 02-01-2026 submitted that the MoM at Para 18.7.22, Point no. 7 mentioned that - *The Committee noted that the project is an expansion proposal under Para 7(ii)(a), and the expansion is proposed within the existing premises.* However, PP clarified that the proposal is for EC expansion for which Public Hearing was conducted, and not an expansion proposal under Para 7(ii)(a).

In light of the submissions made, and PP's request vis-à-vis factual status, the EAC agreed to amend the MoM, and accordingly the statement at Para 18.7.22, Point no. 7 may be read as - ***The Committee noted that the project is an expansion proposal with Public hearing, and the expansion is proposed within the existing premises.***

(v) Details of Proposals and Agenda by the Member Secretary, EAC

Shri. Dinesh Runiwal, Scientist 'F' and Member Secretary, EAC (Industry-1 Sector) appraised to the Committee about the details of Agenda items to be discussed during this EAC meeting.

Details of the proposals considered during the 19th meeting **conducted** through **VC Mode**, deliberations made and the recommendations of the Committee are explained in the respective agenda items as under:

Consideration of Environmental Clearance Proposals

Agenda No. 19.1

- 19.1 Proposed Expansion of Integrated Cement Plant (Clinker: 3.0 MTPA to 15.06 MTPA, Cement: 4.5 MTPA to 14.5 MTPA, CPP: 50 MW (No Change), WHRS 15 MW to 87 MW, DG Set (9190 kVA), AFR Pre-processing & Feeding System (4250 TPD), Synthetic Gypsum Plant (5000 TPD) and Fly Ash Dryer: 1000 TPD, Railway siding with Wagon Tippler & Loader by Installation of new Line – 2, 3 & 4 and Plant Residential Colony by M/s. Ambuja Cements Limited at Village & Tehsil: Marwar Mundwa, District: Nagaur, State Rajasthan- Consideration of EC.**

[Proposal no.: IA/RJ/IND1/546108/2025: File No. IA-J-11011/394/2010-IA-II (IND-I)]

[Consultant: Ecomen Mining Private Limited (formerly known as Ecomen Laboratories Pvt Ltd.); Valid upto: 10.03.2029]

- 19.1.1 M/s. Ambuja Cement Limited has made an online application vide proposal no. IA/RJ/IND1/546108/2025 dated 30.12.2025 along with copy of EIA/EMP report, Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(b) Cement Plants and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.
- 19.1.2 Name of the EIA consultant: M/s. Ecomen Mining Private Limited (formerly known as Ecomen Laboratories Pvt. Ltd.) [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/25-28/RA 0403; valid upto 22.03.2028].

Details submitted by Project proponent

- 19.1.3 The detail of the ToR is furnished as below:

Date of application	Consideration	Details	Date of accord	ToR Validity
29.03.2024	66 th EAC meeting held during 23 rd – 24 th September, 2024	Terms of Reference	12.10.2024	11.10.2028

- 19.1.4 The project of M/s. Ambuja Cement Limited, located at Village & Tehsil: Marwar Mundwa, District: Nagaur, Rajasthan is for expansion of Integrated Cement Plant (Clinker: 3.0 MTPA to 15.06 MTPA, Cement: 4.5 MTPA to 14.5 MTPA, CPP: 50 MW (No Change), WHRS 15 MW to 87 MW, DG Set (9190 kVA), AFR Pre-processing & Feeding System (4250 TPD), Synthetic Gypsum Plant (5000 TPD) and Fly Ash Dryer: 1000 TPD, Railway siding with Wagon Tippler & Loader by Installation of new Line – 2, 3 & 4 and Plant Residential Colony.
- 19.1.5 Details of EDS:

EDS Points	Reply																				
<p>1. Point 1.</p> <p>The form in Part-A must mention the Clinker capacity, as the same is significant and more than the Cement capacity on TPA basis</p>	<p>Under Para 1.4.1 of Part-A it is mentioned as production capacity of Cement i.e. 14.5 MTPA.</p> <p>Considering the Clinker as significant component the estimated quantity will be 15.06 MTPA, which is mentioned under Para 1.1, Part-A of application.</p> <p>The application is also updated with following components under para 1.4.1 of Part A:</p> <div><div><div>1. Cement Capacity</div><div>2. Clinker Capacity</div><div>3. Captive Power Plant</div><div>4. WHRS</div><div>5. DG set</div><div>6. AFR pre-processing & feeding system:</div><div>7. Synthetic Gypsum Plant</div><div>8. Fly ash dryer</div></div><div><div>: 14.5 Million MTPA</div><div>: 15.06 Million MTPA</div><div>: 50 MW (no change),</div><div>: 87 MW,</div><div>: 9190 kva,</div><div>4250 TPD,</div><div>: 5000 TPD and</div><div>: 1000 TPD</div></div></div>																				
<p>2. Point 2.</p> <p>Point no.9, Part A may be corrected as there is forest land within study area of 10kms</p>	<p>There are no Reserve Forest and Protected Forest within 10 km radius of the study area. Hence it is mentioned under Point No. 9 of Part A as NA i.e. Not Available.</p>																				
<p>3. Point 3.</p> <p>Land related documents are not legible, the same may be uploaded in good quality. A notarized statement of land under possession be submitted on non-judicial stamp paper.</p>	<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div>• Legible copy of land related documents is submitted.</div><div>• Notarised statement of land under possession of M/s Ambuja Cements Limited is submitted and summary is given below:</div></div></div></div><table><tr><th rowspan="3">Sr. No</th><th rowspan="3">Document reference No.</th><th colspan="3">Area as per Documents</th></tr><tr><th colspan="2">In Local Unit</th><th rowspan="2">In Hectare</th></tr><tr><th>Bigha</th><th>Biswa</th></tr><tr><td>1</td><td>Allotment letter from RIICO dated 05.12.2007</td><td>1203</td><td>13</td><td>194.84</td></tr><tr><td>2.</td><td><div><div>• Land Purchased and conversion made vide letter of Revenue Department Group-3 Government of Rajasthan letter No. P-2-(606)/Raj03/06 dated 17/02/2012. (496 beegha and 18 biswa land parcel).</div><div>• Out of which cancellation of Gauchar Land vide issued by District Collector vide Letter No 12 () 1986/6575 Dated 17.10.2013. (132 beegha).</div></div></td><td>364</td><td>18</td><td>59.07</td></tr></table></div>	Sr. No	Document reference No.	Area as per Documents			In Local Unit		In Hectare	Bigha	Biswa	1	Allotment letter from RIICO dated 05.12.2007	1203	13	194.84	2.	<div><div>• Land Purchased and conversion made vide letter of Revenue Department Group-3 Government of Rajasthan letter No. P-2-(606)/Raj03/06 dated 17/02/2012. (496 beegha and 18 biswa land parcel).</div><div>• Out of which cancellation of Gauchar Land vide issued by District Collector vide Letter No 12 () 1986/6575 Dated 17.10.2013. (132 beegha).</div></div>	364	18	59.07
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EDS Points	Reply																			
	3.	Land transferred by District Collector vide letter No. 12 (10) 98 9200-9207 Dated 23.11.2011. (from M/s Indo Nippon to M/s Ambuja Cements Limited).	60	18	9.85															
		Total	1627	49	263.76															
4. Point 4.	<p>Many documents are in vernacular/Hindi language. PP may ensure that all such documents may be uploaded in Hindi as well as English, after authenticated translation</p> <p>All documents of vernacular/Hindi language have been translated in English language and Notarized. Both the documents are submitted.</p>																			
5. Point 5.	<p>The Part B or part C 14.1.6 mentions that Project is operational for partial components whereas details are mentioned in the table as 'NA', the same may be corrected.</p> <p>In the Part A at point No 14.1.6, the following details have been corrected.</p> <table><tr><th>EC</th><th>CTE</th><th>CTO</th><th>Details of Unimplemented units</th><th>Remarks</th></tr><tr><td colspan="5">Corrected</td></tr><tr><td>Clinker: 3 MTPA; Cement: 4.5 MTPA; Captive Power Plant: 50 & Waste Heat Recovery Boilers (WHRB):9MW</td><td>Clinker: 3 MTPA; Cement: 4.5 MTPA; Captive Power Plant: 50 & Waste Heat Recovery Boilers (WHRB):9MW</td><td>Cement: 4.5 MTPA; Clinker: 3 MTPA; Waste Heat Recovery Boilers (WHRB):9 MW</td><td>50 MW CPP</td><td>50 MW CPP Not implemented</td></tr></table>					EC	CTE	CTO	Details of Unimplemented units	Remarks	Corrected					Clinker: 3 MTPA; Cement: 4.5 MTPA; Captive Power Plant: 50 & Waste Heat Recovery Boilers (WHRB):9MW	Clinker: 3 MTPA; Cement: 4.5 MTPA; Captive Power Plant: 50 & Waste Heat Recovery Boilers (WHRB):9MW	Cement: 4.5 MTPA; Clinker: 3 MTPA; Waste Heat Recovery Boilers (WHRB):9 MW	50 MW CPP	50 MW CPP Not implemented
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6. Point 6.	<p>Configuration-wise tabular statement of EC implementation status and CTO obtained is furnished below:</p>																			

EDS Points	Reply																			
PP may submit a tabular statement of configuration-wise EC implementation status, duly supported by uploading of related CTO obtained for such quantities	S N	Particulars	Unit	Capacity as per Existing EC	Capacity as per Existing CTO	Existing Implementation Status	Additional Proposed Capacity	Total Capacity After Expansion												
	1	Cement	MTPA	4.5	4.5	Implemented	10	14.5												
	2	Clinker	MTPA	3.0	3.0	Implemented	12.06	15.06												
	3	WHRS	MW	15	15	Implemented	3 x 24	87												
	4	CPP	MW	50	0	Not Installed	NA	50												
	5	DG Sets	KVA	-	1 x 1250 KVA 1 x 380 KVA	Implemented	3 x 2 x 1010 KVA (For Line-2,3 &4) and 3 x 500 kVA for WHRS	9190												
Supporting documents such as Copy of EC, CTE and CTO are submitted.																				
7. Point 7.	<div>The limestone requirement details, as sought at ToR stage, be provided to support the limestone sourcing vis-a-vis clinker manufacturing. Since the limestone is</div> <div><ul style="list-style-type: none">The proposed expansion is not an interlinked project.The required limestone for proposed expansion will be sourced from both existing Limestone mine (Marwar Limestone ML-I and M-II) and New Auction Blocks (3D2 and HPB20).<ul style="list-style-type: none">EC obtained of existing limestone mine (ML-1 & ML-2) with production capacity of 5MTPA and expansion proposal submitted for 13.5MTPA.EC applied for proposed New Auction Blocks (3D2 and HPB20) to produce 6MTPA limestoneTotal limestone requirement to the cement plant after expansion will be 24.5 MTPA, Sources of limestone details are given below:</div> <table><tr><th>Description</th><th>Clinker (MTPA)</th><th>Required Limestone (MTPA)</th><th>Source of Limestone and EC Status</th><th>Limestone Mine Capacity, MTPA</th><th>Remarks/ EC Reference No.</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								Description	Clinker (MTPA)	Required Limestone (MTPA)	Source of Limestone and EC Status	Limestone Mine Capacity, MTPA	Remarks/ EC Reference No.						
Description	Clinker (MTPA)	Required Limestone (MTPA)	Source of Limestone and EC Status	Limestone Mine Capacity, MTPA	Remarks/ EC Reference No.															

EDS Points	Reply					
completely sourced from captive mines, it may be clarified as to why PP does not think that it is an interlinked proposal. Further, the PP needs to ensure that EC capacity be supported by equivalent limestone requirement .	Existing	3.0	4.25	Marwar Limestone ML-1	3.0	EC obtained letter no. J/11015/421/2005-IA.II (M) dated 01.11.2022.
				Marwar Limestone ML-2	2.0	EC obtained letter no. J-11015/422/2005-IA.II (M) dated 30.06.2023.
				Sub Total	5.0	Copy of EC enclosed with EDS reply
	Additional Proposed Capacity	12.06	16.356	Marwar Limestone ML-1 (Expansion)	11.0	ToR obtained vide letter no. J-11015-421-2005-IA-II(M) on 18.11.2024. PH completed on 28.05.2025. EC Application submitted on 30.12.2025
				Marwar Limestone ML-2 (Expansion)	2.5	ToR obtained vide letter no. J-11015-422-2005-IA-II(M) on 25.11.2024. PH completed on 28.05.2025.
				3D2 Limestone Mine, (Auction block)	3.0	TOR obtained vide letter No: IA-J11015/42/2023-IA-II(NCM) on 08/01/2024. PH conducted on 24.07.2024. Final EIA submitted for EC on 17.02.2025. EAC Recommended on 27.02.2025
				Sarasani Harima Somna Limestone Block (Auction block-HBP-	3.0	TOR obtained vide letter no. IA-J-11015/68/2024-IA-II(NCM) on 18.11.2024. Request letter to conduct the PH is

EDS Points	Reply					
				20)		submitted to SPCB on 11.11.2025.
				Sub Total	19.5	Copy of ToR, enclosed as with EDS reply
	Total	15.06	20.606	Grand Total	24.5	
	<ul style="list-style-type: none"> As per business requirement it is planned to utilize limestone from both existing as well as proposed expansion and new auction blocks for our other nearby units. Hence, the application is submitted without interlinking of proposals. 					
8. Point 8. PP may explain the action plan, with timelines, for conveyor transportation from the captive mines, along with a clarification on the transportation plan, clearly mentioning the mitigation strategy due to road transportation.	<ul style="list-style-type: none"> Action plan for Limestone transportation <p>Existing Crusher & OLBC:</p> <p>The existing structure having capacity of 2000 TPH. It is being used for limestone transportation from ML-1 & ML-2 to Cement Plant</p> <p>Proposed Crusher & OLBC:</p> <p>It is proposed at auctioned blocks (3D2 and HPB20) & ML-1</p> <ul style="list-style-type: none"> Limestone transportation plan <p>During First 5 years of production since execution of proposed plant operation the mode of limestone transportation by covered trucks through road (i.e. around 24km distance) only, considering land acquisition and construction work. Later, the transportation will be carried out by proposed OLBC.</p> <ul style="list-style-type: none"> Mitigation Plan for road transportation <p>Following mitigation measures will be taken during road transportation:</p> <ul style="list-style-type: none"> - Deployment of specially designed methodology to cover trucks for limestone transportation. - Transportation of clinker to the clinker silo is being/will be done through covered conveyor belt in a very controlled manner. - Movement of heavy trucks/vehicles on the non-metallic road generates substantial quantity of dust emission. - Sprinkling of water through tankers is being/will be done to settle down the fugitive emissions generated by transportation activity. - Company will explore to deploy 30% Electric Vehicle for limestone transportation. 					
9. Point 9.						

EDS Points	Reply				
<p>PH details mentioned in Part-C indicate DM as chairperson in Form, whereas the proceedings indicate SDM as the concerned official. The same may be corrected.</p>	<ul style="list-style-type: none"> DM, Nagaur has deputed Sub-Divisional Magistrate (SDM), Mundwa Dist Nagaur to chair the Public Hearing meeting vide letter No. 3642 dated 23-05-2025. Hence, the chairperson of the public hearing was Mr. Prabhjot Singh Gill, SDM, Mundwa, Dist Nagaur. Part-C of application is updated with SDM as Chairperson. 				
<p>10. Point 10.</p> <p>The presentation must have ToR compliance slides.</p>	<p>Presentation of TOR Points compliance is submitted.</p>				
<p>11. Point 11.</p> <p>There are representations, including VIP references, received against the project, which have been referred to RO MoEF&CC/ State Authorities by IA CMD. In this regard, PP may coordinate with authorities and submit a detailed</p>	<p>The RO, Gandhinagar/(Sub-Regional Office) of MoEF&CC, Jaipur has submitted the factual report on dated 04.12.2025 on the VIP reference by Shri Hanuman Beniwal, Hon'ble M.P of Nagaur (Rajasthan regarding alleged irregularities in EC's granted to Ambuja Cement, Marwar Mundwa, Nagaur District of Rajasthan in response to the Letter received from IA-II Division dated 08.09.2025 and Ambuja Cements Limited request letter dated 14.10.2025. The summary of IRO MoEFCC report is submitted.</p> <table border="1"> <thead> <tr> <th>VIP reference points</th><th>Verification facts by IRO MoEFCC Jaipur visited on site 24.09.2025.</th></tr> </thead> <tbody> <tr> <td> <p>a) The company allegedly submitted incorrect facts regarding the plant's distance from the Mundwa Municipality populated area, the railway line and the National Highway.</p> </td><td> <p>The Environment Clearance obtained MoEFCC vide letter no F.No. J-11011/394/2010-IA-II (I) as per EIA notification 2006, based on an Environment Impact assessment study by NABET & MoEFCC -approved consultant. EC was granted after public consultation and recommendation, followed by appraisal by the EAC.</p> <p>The Distance related submitted facts and the physical verification details are given below;</p> </td></tr> </tbody> </table>	VIP reference points	Verification facts by IRO MoEFCC Jaipur visited on site 24.09.2025.	<p>a) The company allegedly submitted incorrect facts regarding the plant's distance from the Mundwa Municipality populated area, the railway line and the National Highway.</p>	<p>The Environment Clearance obtained MoEFCC vide letter no F.No. J-11011/394/2010-IA-II (I) as per EIA notification 2006, based on an Environment Impact assessment study by NABET & MoEFCC -approved consultant. EC was granted after public consultation and recommendation, followed by appraisal by the EAC.</p> <p>The Distance related submitted facts and the physical verification details are given below;</p>
VIP reference points	Verification facts by IRO MoEFCC Jaipur visited on site 24.09.2025.				
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EDS Points	Reply			
response on the issues raised in the representation.		Submitted Details in EIA report;		
		Particulars	Details	
		Nearest Village	Khain 1.5 km in North	
		Nearest Railway Station	Marwar-Mundwa (0.2km in south)	
		Nearest National Highway	NH-89 (Near boundary in East)	
		Details as per approximate physical verification and Google Earth analysis:		
		Particulars	Details	
		Nearest Village	Marwar Mundwa- 0.36 km (South) Khain 1.5 km in North	
		Nearest Habitation	Marwar Mundwa- 0.36 km (South)	
		Nearest Railway Station	Marwar-Mundwa (0.9 km in south)	
		Nearest National Highway	NH-58/earlier NH-89 (Near boundary 35 meter in East)	
	b) Claims regarding the provision of employment to local people were also allegedly incorrect.	Employment details mentioned in EIA report was 391 persons and currently total 836 persons have been employment from the industry, out of which 658 persons are of Rajasthan domicile. Apart from the direct employment, some indirect employment is also created.		
		Manpower Details of Ambuja Cements Limited - Marwar Mundwa		
		Total Manpower	836	Percentage
		Nagaur Domicile	507	61%
		Rajasthan Domicile	658	79%
	c) Non-compliance Reports: The 17 compliance reports being submitted regarding the EC	The company has conducted air, water, noise, and soil monitoring by an NABL-accredited laboratory regularly for monitoring and analysis of the pollution		

EDS Points	Reply
	<div>conditions are reportedly not completely accurate.</div> <div>Level in and around the project site, and records related to the same were available on the site during the visit. Additionally, it is being regularly verified by the Regional Office of the Pollution Control Board.</div> <div> <p>d) The initial EC (issued to KEC International in 1988) required the plant to be established 4 km away from the populated area. Despite changes in company ownership (KEC \ Indonippon \ Ambuja Cement), the plant was established near the populated area, not 4 km away, violating the original condition. The preceding companies (KEC and Indonippon) allegedly acquired farmers land at low prices to create a land bank without commencing mining or plant operations.</p> </div> <div> <p>As per the available records in the there is no EC issued to the KEC international in 1988 for the cement plant and mines for this project by RO, MoEF&CC, Sub-regional office, Jaipur.</p> </div> <div> <p>The First Environmental Clearance (EC) for mining lease ML-01 was granted to M/s Indo Nippon Special Cements Limited via letter No. J-11015/421/2005-IA.II(M), dated 18th January 2007. Subsequently, the EC was transferred to M/s Ambuja Cements Limited through MoEFCC letter No. J-11015/421/2005-IA.II, dated 20th April 2017. After the Name change Ambuja Cements Limited obtained the EC expansion from 2.5 to 3.0 Million tonnes per annum vide letter No.EC22A001RJ199629 Dated 01/11/2022.</p> </div> <div> <p>The initial Environmental Clearance (EC) for mining lease ML-II was granted to M/s Indo Nippon Special Cements Limited via letter No. J-11015/422/2005-IA.II(M), dated 18th January 2007. This EC was subsequently transferred to M/s Ambuja Cements Limited through MoEFCC letter No. J-11015/422/2005-IA.II, dated 28th March 2017. After the Name change, Ambuja Cements Limited obtained the EC expansion from 0.5 to 2.0 Million Tonnes per annum vide letter No.EC23A001RJ123775 dated 30.06.2023.</p> </div> <div> <p>The initial Environmental Clearance (EC) for the Integrated Cement Plant in the name of Ambuja Cements Limited was obtained from the Ministry of Environment, Forest and Climate Change (MoEFCC) following the Environmental Impact Assessment (EIA) study and public consultation, in accordance with the EIA</p> </div>

EDS Points	Reply	
		<p>Notification 2006. The clearance was granted via letter No. F. No. J-110111/394/2010-1A-II(1), dated 05th May 2011, with a subsequent extension of validity and amendment issued on 31st August 2018. It is pertinent to mention that in none of the ECs, condition of establishing plant operations 4 KM away from the town has been categorically stipulated.</p>
	<p>e) Despite the 2006 EIA mandate for scientific assessment in cement and mining projects, the report for the Mundwa plant showed major inconsistencies in the assessment of Plant location and water availability, Biodiversity, Land use and land cover.</p>	<p>It has been observed from the records that M/s Ambuja Cements Limited has obtained the environmental clearance after the scientific study done by NABET-approved consultants around the 15 km radius area.</p> <p>It is further noted from the records that Biodiversity, land use patterns, water availability and requirements, socio-economic study, agricultural activity, air, water, soil, noise pollution study, and all the studies, reports, and surveys included in the EIA report are recommended by the MoEFCC (EAC) committee during the ToR presentation. A baseline study and data were also collected by NABL & NABET approved laboratories and consultants.</p> <p>Subsequently, the company has also conducted air, water, noise, and soil monitoring by an NABL-accredited laboratory regularly for monitoring and analysis of the pollution Level in and around the project site, and records related to the same were available on the site during the visit. Additionally, it is being regularly verified by the Regional Office of the Pollution Control Board.</p>
	<p>f) Cement units are proven sources of Carbon Dioxide (CO₂), contributing significantly to global temperature rise. The plant is causing soil erosion and water pollution, The discrepancies and pollution pose a major health risk to the local</p>	<p>It was reported that the unit is working towards achieving its Net Zero target by 2050 and has undertaken some initiatives at the group level to support this goal. Details given in the sustainability report of 2024-25 are published and available on the official website of the company, which is attached in report as Annexure -07</p>

EDS Points	Reply
	population and are a significant environmental concern.

19.1.6 Environmental Site Settings:

S.No	Particulars	Details			
1	Total land	263.76 Ha			
2	Land Acquisition details	The proposed expansion will be carried out within the existing plant premises. No additional land is required for expansion of proposed project. Khasra Nos. 36,37,38,39,40,41,42,44,45,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,71,72,73,74,75,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,110,112,114,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,136,136,137,138,139,140,351,352,353,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,386,387,388,486 at Marwar Mundwa (Village, Tehsil), Naguar (District), Rajasthan State			
3	Existence of habitation & involvement of R & R, if any	Habitation	Distance	Direction	
		Marwar Mundwa Town	0.2 Km	S	
R & R: Not applicable					
S.No	Particulars	Details			
4	Latitude & Longitude	27° 03’ 55.86’’ N - 27° 05’ 17.95’’ N 73° 48’ 25.9’’ E- 73° 49’ 19.96’’ E			
5	Elevation	Highest – 364 MSL; Lowest –353 MSL.			
6	Involvement of Forest Land, if any	Not Applicable			
7	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	Water bodies			
		S.No	Name of the water body	Distance(Km)	Direction
				Distance from lease boundary	
		1	Lakholaw Talab	0.9	S
		2	Gyan Talab	2.04	N
		3	Jajra Talab	2.07	NW
(Source: All distance are taken with respect to S.O.I. GT sheet)					
There are found some Nadis 10 km radius of the Plant area Puna Nadi, Pinsarea Nadi, Adolab Nadi, Rupali Nadi, Kiyar Nadi, Visnani Nadi, Dhainda Nadi etc					

S.No	Particulars	Details
8	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	None within 10km study Area

19.1.7 The existing project was accorded environmental clearance vide letter No: J-11011/394/2010-IA-II (I) dated 5th May, 2011 for Integrated Cement Project i.e. Clinker (3.0 Million TPA), Cement (4.5 Million TPA), Captive Power Plant (50 MW) & Waste Heat Recovery Boiler (9.0 MW) at Village – Marwar Mundwa, Tehsil & District: Nagaur (Rajasthan) of M/S Ambuja Cements Limited.(Extent-285.10 ha). The MoEF&CC granted extension of validity for further 3 years upto 4th May 2021 and amendment in reduction in area from 285.10 ha to 263.76 ha of the existing EC vide letter no. Z-11011/6/2013 – IA.II (I)pt dated 31st August 2018. The existing project was accorded Consent to Operation vide Reference No. F(CPM)/Nagaur(Nagaur)/3(1)/2022-2023/5041-5043dated 03/11/2023. The validity is valid up to 31/10/2028. In addition Consent to Operate for the existing Waste Heat Recovery Boilers (WHRB):6 MW was accorded by Rajasthan State Pollution Control Board vide Ir. No. F(CPM)/Nagaur(Nagaur)/3(1)/2022-2023/107-109 Dated 6.4.2023. The validity of CTO is up to 30.06.2027.

19.1.8 Implementation status of existing EC:

S. No.	Facilities	Units	As per EC dated 05.05.2011	Implementation Status as on	Production as per CTO
1.	Cement	MTPA	4.5	Implemented	4.5
2.	Clinker	MTPA	3.0	Implemented	3.0
3.	WHRB	MW	15	Implemented	15
4.	CPP	MW	50	Not Implemented	50
5.	DG Sets	KVA	-	Implemented	1 x 1250 KVA 1 x 380 KVA

19.1.9 The unit configuration and capacity of existing and proposed project is given as below:

S.NO	Particulars	Units	Existing Capacity	Proposed Expansion Capacity	Total capacity after proposed expansion
1	Clinker	MTPA	3.0	3 x 4.02=12.06	15.06
2	Cement (OPC, PPC, PSC, Composite, Super Sulphate, Masonry& other type of cements)	MTPA	4.5	10	14.5
3	CPP	MW	50	Nil	50
4	WHRB	MW	15	3 x 24= 76	87
5	DG Set	KVA	1 x 1250 1 x 380	3 x 2 x 1010 (For Line-2& 3) 3 x 500 (For WHRS)	9190 KVA

19.1.10 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S. No.	Raw Material	Requirement (Million TPA)			Source	Distance from site (Kms)	Mode of Transportation
		Existing 3.0 MTPA	New Units Clinker 12.06 MTPA & Cement 10 MTPA	Total After Expansion			
1.	Limestone	4.25	16.356	20.606	Limestone Mines	-	By conveying system from ML-I and ML-II From 3D2 and HPB-20, initially by road for 5 years till completion of OLBC.
2.	China Clay	0.36	1.401	1.761	From Local Market	50	Road
3.	Red Ochare/ Red mud	0.24/0.17	2.79 1.95	3.03/2.12	Chittaurgarh and Bhilwara/ Hindalco	200 (Red ochare) 1200 (Red Mud)	Road (Red ochare) Rail (Red Mud)
4.	Gypsum	0.23	0.5	0.73	From Local Market, nearby area	50	Road
5.	Fly ash	0.69	3.5	4.19	Suratgarh TPP & Local Market	200	Road & Rail
6.	Slag	-	1.0	1.0	AMNS Hazira Plant & Nearby area	800	Road & Rail

S.No	Name	Quantity (TPD)			Calorific Value (Kcal./kg)	% Ash	% S	Source	Distance & Mode of Transportation
		Existing	New	Total after Expansion					
	For Cement Plant								
1.	Coal (Domestic) (for 100% requirement)	1500 TPD	2 x 2230 TPD	8190 TPD	Domestic : 4500 kcal/kg	Domes tic: 32%to 37% Import ed:	<1%	Chhattisgar h, Jharkhand, Orissa and other states	800 to 1500 KM By Rail / Road
	Coal (Imported) (for 100% requirement)	1125 TPD	3 x 1580 TPD	5865 TPD	Imported: 6000 Kcal/k g	10% - 16%	<5%	Manibia, mozambica ustralian	

S.No	Name	Quantity (TPD)			Calorific Value (Kcal/kg)	% Ash	% S	Source	Distance & Mode of Transportation
		Existin g	New	Total after Expansion					
2.	Pet coke(for 100% requirement)	900 TPD	3 x1290 TPD	4770 TPD	7500 Kcal/kg	~5%	5-9%	Domestic refineries (Imported)	650 to 700 km Rail & Road
3.	Carbon Black (Alternate Fuel)	NA	37 TPD	50000 TPD	65 Kcal/kg	1-5 %	1-4%	Local market	100 Km by Road
4.	LDO (is used during start-up firing after shut down of boiler)	50 KL/start up	400 KL (300 for PH + 100 for kiln) 50 KL for Normal startup	500 KL/Plant	9750 Kcal/Kg	-	1.8 %	Local market	100 Km by Road
5.	Other Alternative Fuels	650	1200	1850	2500 - 3500 Kcal/Kg	25 - 35 %	-	Domestic sourcing from nearby industries	1000 Km by Road
For CPP									
6.	Coal	-	930 TPD	930 TPD	3000-8200 Kcal/Kg	1 - 70 %	0.2 - 3 %	Domestic & international market	800 to 1500 km Rail & Road

19.1.11 Existing water requirement is 2000 KLD, which is met from three sources namely (i)PHED Nagaur, permission letter dated 31/10/2017 (200 KLD), (ii)Marwar Mundwa Nagar Palika for supply for domestic sewage water for further treatment in STP (300 KLD) and (iii) Brackish Raw Water supply from Kasnau Matasukh Lignite Mines, District Nagaur (Agreement for 3000 KLD in between ACL & RSMML dated 06/02/2019). The additional water requirement for the proposed expansion is 4835 KLD and the additional source of water will be Nagar Palika Nagaur to supply 2000 KLD Sewage water from for treatment in STP. The additional water of 1505 KLD will be supplied from Plant STP (535 KLD) and ETP (970). After the expansion the total water requirement will be 6835 KLD and the source will be 7005 KLD.

19.1.12 Existing power requirement of 48 MW is obtained from State Grid (33 MW) and WHRS (15MW). The power requirement for the proposed project is estimated as 152 MW, will be met from Grid (80 MW) and WHRS (72 MW).

19.1.13 Baseline Environmental Studies:

PERIOD	Oct 2023 to Dec 2023
AAQ PARAMETERS AT 10 LOCATIONS	PM2.5: 17.20-45.60 µg/m ³ PM10 : 33.83- 78.28 µg/m ³ SO ₂ : 7.60-18.01 µg/m ³ NO ₂ : 14.68-36.19µg/m ³ CO : 0.26- 1.06 mg/m ³

AAQ MODELLING (Incremental GLCs)	PM10 = 0.39 to 8.70 µg/m3 PM2.5= 0.27 to 2.19 µg/m3 SO2 = 0.33 to 7.29 µg/m3 NOx =0.41 to 9.11 µg/m3 CO =0.03 to 0.73 mg/m3
GROUND WATER QUALITY AT 8 LOCATIONS	pH: 7.32 – 7.89 ,Total Hardness: 174 – 228 mg/l, Chlorides: 34 – 80 mg/l, Fluoride: 0.49 – 1.09 mg/l.
SURFACE WATER QUALITY AT 2 LOCATIONS	pH: 7.65 – 7.89, TDS: 454.14 – 640.28 mg/l, Fluoride: 0.45 – 0.54 mg/l, Chloride: 30 – 40 mg/l, Total coliform-74-90 (MPN/100 ml)
NOISE LEVELS AT 9 LOCATIONS	Industrial Area: Day 57.2 – 73.8 dB(A); Night 51.4– 68.3 dB(A); Residential Area: Day 37.1 – 54.8 dB(A); Night 37.1 – 42.8 dB(A); Silence Area: Day 38.2– 49.6 dB(A); Night 34.9 – 38.2 dB(A);
TRAFFIC STUDY	<div><div><div><div><div>V (Volume in PCU/hr.)</div><div>353</div></div><div><div>C (Capacity in PCU/hr.)</div><div>1500</div></div><div><div>Existing V/C Ratio</div><div>0.23</div></div><div><div>LOS</div><div>B (Very Good)</div></div></div></div><div>PCU load after proposed project will be 664 PCU/hr. and there is no change in level of service (LOS) and it will remain:0.55</div><div><div><div><div><div>V (Volume in PCU/hr.)</div><div>664</div></div><div><div>C (Capacity in PCU/hr.)</div><div>1500</div></div><div><div>Existing V/C Ratio</div><div>0.44</div></div><div><div>LOS</div><div>C (Good)</div></div></div></div><div><div>* Note: Capacity as per IRC-106-1990 Guide line for capacity for roads.</div><div>Conclusion: The level of service will C after including additional traffic due to proposed project.</div><div>For the initially Five year the limestone will be transported from 3D2 and HB20 by road to the plant. Total annual capacity of limestone transport is 6 MTPA and the daily 633 truck (55 tonne and 345 days) will play both side which will add additional PCU/hr as 98. Hence the total PCU/hr will be 762 and LOS will be 0.50 (C Good)</div></div></div></div>
Flora and fauna	<div>As per the Wildlife Amendment Act, 2022 there are 7 nos of schedule-I species present in the study area i.e. Jackal, Black buck, Indian Gazelle/Chinkara, Indian grey mongoose, Indian crested porcupine, Peacock and Shikara.</div> <div>Wildlife Conservation Plan has been submitted to DCF Nagaur for their further approval vide our letter dated 23.12.2025. The cost of Conservation Plan will be Rs. 166.88 Lakhs.</div>

19.1.14 The details of solid waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Type of waste	Source	Quantity generated (TPA)	Mode of Treatment	Disposal	Remarks
1.	Organic Waste (Including Sewage sludge)	MSW from Office and house hold activities	25	Composting	Used as manure for greenbelt development	-
2.	In Organic	Office and plant activities like as metal, plastic, paper	15	Storage at earmarked site	Authorized PCB vendors	-
3.	Used Oil/Spent Oil	Plant and machinery	375	In isolated area with non-permeable concrete flooring	Through CPCB/SPB authorised Agency Recycler	-
4.	Wastes containing oil	Plant and machinery	225	In isolated area with non-permeable concrete flooring	Through CPCB/SPCB Authorized agency	-
5.	Used Oil Containers @30 x200L capacity	Plant	150	In isolated area with non-permeable concrete flooring	Through CPCB/SPCB authorised agency Recycler	-

19.1.15 **Public Consultation:**

S. No.	Particular	Details
1.	Details of advertisement given	1. Dainik Navjyoti (24.4.2025) 2. Hindustan Times (24.4.2025)
2.	Date of public consultation	27.5.2025 at 11 AM
3.	Venue	Near HEMM Workshop, Mining Lease Area, ML-I Project Place, Village-Inana, Tehsil:Mundwa. District: Nagaur
4.	Presiding Officer	Sub Divisional Magistrate , Mundwa District Nagaur

5.	Major issues raised	Plantation, Employment, Skill development and Women Empowerment, Health & Medical Facilities, Education and Sports promotion , Drinking water and Water Harvesting / conservation, Infrastructure Development , Agriculture and Animal Husbandry , Control of Emission
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Action Plan as per OM dated 30.09.2020

CER budget for development programme of proposed expansion plan								
S. No.	Activity	Physical Targets	Budget	Timeline				
				1st year	2nd Year	3rd Year	4th year	5th year
1	Infrastructure	Contribution towards strengthening of internal roads, drainage system, parking place, accident-free transportation system, signage, painting, plantation with maintenance, and beautification of public areas, community places of Mundwa Nagar Palika.	15	4	3	3	3	2
		Contribution towards strengthening of internal roads, drainage system, parking place, accident-free transportation system, signage, painting, plantation with maintenance, and beautification of public areas, community places of villages falling in study area.	15	5	3	3	3	1
		Sports complex Development- at Villages falling under the study area.	5	1.5	1	1	1	0.5
		Library developed for Villages falling under the study area.	1.5	0.3	0.5	0.4	0.15	0.15
		SC/ST Youth development plan Development of E- Library with modern facilities . Sports Ground development with equipment. Community Hall for SC/ST in Mundwa Village.	2.5	1	1	0.5	0	0
		Community hall for various funtion in inana village	2	1	1	0	0	0
		Temple/road, Crimination site development with cemented approach road, boundary wall, plantation	4	2	1.2	0.8	0	0

CER budget for development programme of proposed expansion plan								
S. No.	Activity	Physical Targets	Budget	Timeline				
				1st year	2nd Year	3rd Year	4th year	5th year
		and shed for Kherwad village & other villages falls under the study area.						
		Parking signages and convex glasses outside the plant to avoid jamming on Mundwa-Inana route.	0.04	0.02	0.02	-	-	-
2.	Water resource Management	Pond Renovation in villages and deepening, Road repair work and new garden development, Plantation with 3 year maintenance and Temple Development in villages falling under the study area.	10	2	2	2	2	2
3.	Cattle shelter	Cow shelter/ Goshala/ Nandishala will be developed in all nearby core Villages. Fodder shed with sanitation, water and fodder and other work. Land will be provided by Panchayat/Nagarpalika.	15	5	5	3	2	0
4.	Education	Renovation of government school buildings, new classrooms and furniture, smart classroom with digital education and free internet, computer lab, Library, water cooler, overhead water tank, BW, Separate Toilets for male and females, other school amenities in construction and infra support, solar support.	16	4	4	3.25	2.75	2
		Contribution to Develop New school (construction , infra and establishment) with all amenities at near by project area in consultation with the local authority.*(Land to be provided by local community/ authority in consultation with local administration). HR Cost Including CER project Manager and field staff for	25	5	10	10	0	0

CER budget for development programme of proposed expansion plan								
S. No.	Activity	Physical Targets	Budget	Timeline				
				1st year	2nd Year	3rd Year	4th year	5th year
		CER project implementation.						
5.	Medical Facilities	Renovation & upgradation of Govt PHC/CHC for building and utility, medical equipment, Medical Beds, Drinking water storage tank, Water cooler, Air cooler, Ceiling fans, Toilets with overhead water tank and other suggest works,	10	2	2	2	2	2
6.	Anganwadi Development	Anganwadi Development-Renovation of center, Immunization, Poshahar-Nutrition support and WASH program.	0.25	0.05	0.05	0.05	0.05	0.05
7.	Drinking water supply	Water filter plant at the Lakholav and other ponds in core Village for drink water will be installed	0.5	0.1	0.1	0.1	0.1	0.1
8.	women's empowerment _ Livelihood and Entrepreneurship program	Skill based Training for self employment (Bio farming, Animal Husbandry, Vegetable/provision store, Beauty Parlor, Fancy store, Tailoring, stitching and Handicraft, Oil mill, flour mills, Bhandhej Work, Bengle work ,Spices etc). Support Capital/ Raw Material to Set up Unit to start Enterprise (1 lakh per member maximum non refundable).	1.5	0.5	0.5	0.5	0	0
9.	Agro-based Livelihood Program	Crop Management training, Trichoderma support, Farm equipment distribution, Seeds distribution- new variety of high yield seeds, Expert visit , drip irrigation, farm pond development Animal husbandry/ Goat based Livelihood program to boost milk yield by providing supplements with quality feed, High yield breeding, shed management,	1.3	0.5	0.25	0.25	0.15	0.15

CER budget for development programme of proposed expansion plan								
S. No.	Activity	Physical Targets	Budget	Timeline				
				1st year	2nd Year	3rd Year	4th year	5th year
		nutrition management, Vaccination.						
10.	Plantation	Patch Plantation 1000 tress in 10 villages with fencing and watering till development and Maintenance for 3 years	2	0.4	0.4	0.4	0.4	0.4
11.	Employment	Out of the total employment 457 Nos, the local employment from Mundwa Tehsil is 178 and from Nagaur Dist is 278. The proposed additional employment of 195 youth, local people, will be preferred based on eligibility.						
12.	Plantation at plant site	The project land is 263.76 ha out of which present green area is 85.10 ha which is 33% of total area with 90300 nos of trees. After expansion green belt will be increased to 90.36 ha (34.26% of total plant area) with plantation of 140800 Nos.	EMP Budget for expansion, Rs 420 Cr.					
13	R&D	R&D and interventions in field Climate Change Agriculture Education Skill Development Water Resource Plantation Entrepreneurship Development and other emerging requirement	5	1	1	1	1	1
14	Control of emission	PM emission level is being/will be maintained < 30 mg/Nm ³ and the Realtime levels are displayed at the plant Main gate and SPCB/CPCB website. CREP guidelines is being/will be implemented to control fugitive emission.						
	Total, Rs in Cr		131.59	35.37	36.02	31.25	17.6	11.35

19.1.16 Existing capital cost of project was Rs 1500 Crores. The capital cost of the proposed project is Rs 8400 Crores and the capital cost for environmental protection measures is proposed as Rs. 420 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 21 Crores. The employment generation from the proposed expansion project is 652. The details of cost for environmental protection measures are as follows:

Sl. No	Description of Item	Existing (Rs. In lakhs)		Proposed (Rs. In lakhs)	
		Capital Cost	Recurring cost	Capital Cost	Recurring cost
1	Air Pollution Control Equipment	12000	200	12635	499.5
2	Water sprinkling system	20	5	100	38
3	Water Pollution Control and Water management	115	30	125	30
4	Environment monitoring and Environment Cell	51	5	70	15
5	Greenbelt development and Plantation	200	40	230	52
6	Others (House Keeping, Vacuum cleaning machine, Environmental awareness program etc.)	250	10	90	28
	Total Cost of each plant	12636	290	13250	662.5
	No of Plants	1	1	7	7
	Total Cost	12636	290	42000	2100

19.1.17 Existing green belt has been developed in 85.10 ha area which is about 33 % of the total project area of 263.76 ha with total sapling of 127650 Trees. Proposed greenbelt will be developed in 5.26 ha .Thus, total of 90.36 ha area (34.26% of total project area 263.76 ha) will be developed as greenbelt. A 7.5 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 13,150 saplings will be planted and nurtured in 5.26 hectares in next 3 years.

19.1.18 It is reported that there is no violation under EIA, 2006/court case/show cause/direction related to the project under consideration.

Certified compliance report from Regional Office

19.1.19 The status of Certified Compliance report of earlier EC was obtained from Regional Office; Jaipur, Rajasthan vide letter dated 06.06.2025 in the name of M/s. Ambuja Cement Limited. As per the report the conditions are complied / being complied by the project proponent.

Written submission by the PP:

19.1.20 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 09.01.2026 through email dated 09.01.2026 submitted the following information:

Sl. No	Additional Detail	Reply
1	The specific Air Quality	ACL has taken the environmental safeguard measures to maintain the emission level well within the emission norms of PM less than 30mg/Nm ³ . The appropriate measures of air quality management for safeguard of the

Sl. No	Additional Detail	Reply																																										
	Management Plan.	<p>habitation of the Marwar Mundwa town towards southern boundary of the plant and sensitives areas as follows:-</p> <p>Ø Minimum 30m plantation all along the plant boundary will be completed by Fy 2027-28. Plantation towards Mundwa village will be having >50m width which will be completed by Fy 2027-28. The present greenbelt is 33% (85.1 ha) which will be increased to 34.26% (90.36 ha) within the 3 years. The overall plantation will be increased from 127650 nos. to 225900 nos. efforts will be made to increase plant density from 1500 to 2500 trees/ha. Year wise plantation details is given as below:</p> <table><tr><th colspan="6">Annual Plantation Details</th></tr><tr><th>Year</th><th>No. of Trees planted</th><th>Plant Survived</th><th>Area covered (Ha.)</th><th>Survival rate (in %)</th><th>Density</th></tr><tr><td>2025-2026</td><td>1,27,650</td><td>103183</td><td>85.1</td><td>81%</td><td>1500</td></tr><tr><td>2026-2027</td><td>30000</td><td>27000</td><td>2</td><td>90</td><td>-</td></tr><tr><td>2027-2028</td><td>35000</td><td>31500</td><td>2</td><td>90</td><td>-</td></tr><tr><td>2028-2029</td><td>33250</td><td>29925</td><td>1.26</td><td>90</td><td>-</td></tr><tr><td>Total</td><td>2,25,900</td><td>1,91,608</td><td>90.36</td><td>85</td><td>2,500</td></tr></table> <p>Ø Existing boundary wall towards Mundwa village is of 3m height. An additional metal sheet of 4m will be installed towards the Mundwa village to check the dust particle travels towards the habitation.</p> <p>Ø The limestone will be transported by OLBC from mines to plant. The name of the limestone mining are Marwar Mundwa ML-I, Marwar Mundwa ML-II, Proposed 3D-2 Block limestone, Proposed Sarasani Harima Somna Limestone Block HPB-20.</p> <p>Ø The Major raw material coal will be received by railway and will be unloaded by wagon tippler having the water sprinkler to suppress the coal dust particles. The clinker to the sister units will be transported by railway. The overall transportation inward and Outward will be 56% by railway and 44% by road. However, road transportation will be reduced to utilised the railway.</p> <p>Ø The existing bag filters/bag house/ESP of line no. 1 installed at all material transfer points will meet the PM emission less than 30mg/Nm3.</p> <p>Ø The proposed bag filters/bag house/ESP of clinker line no . 2, 3, and 4 to be installed at all material transfer points will meet the PM emission <30mg/Nm3.</p> <p>Ø The existing and proposed storage facilities for Coal, limestone, additives, gypsum and AFR will be under close shed only.</p> <p>Ø All transfer belts will be covered.</p> <p>Ø Entire internal roads and parking area will be cemented and will be cleaned regularly by vacuum sweeping. The existing vacuum</p>	Annual Plantation Details						Year	No. of Trees planted	Plant Survived	Area covered (Ha.)	Survival rate (in %)	Density	2025-2026	1,27,650	103183	85.1	81%	1500	2026-2027	30000	27000	2	90	-	2027-2028	35000	31500	2	90	-	2028-2029	33250	29925	1.26	90	-	Total	2,25,900	1,91,608	90.36	85	2,500
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Sl. No	Additional Detail	Reply																																										
		<p>Machines are 3 nos. which will be increased 10 nos. (4 nos. truck mounted and 6 nos. small size.)</p> <p>Ø Water sprinklers will be provided in limestone and coal storage area to suppress the fugitive emission. The existing 3 nos. of fog canon will be increased to 10 nos. at coal, limestone and additives areas.</p> <p>Ø Dry tyre washing system will be installed for automated cleaning of the cement trucks.</p>																																										
2	Implementation of Electric vehicle for the inbound and outbound transportation.	<p>The target to meet the 30% EV for transportation of raw materials and products are given below:</p> <p style="text-align: center;">EV Proposal for Existing Operations</p> <p>Out of the total inbound and outbound frequency of vehicles calculated as 255 Nos. per day will be reduced to 178 Diesel based and remaining 30% that is 77 nos. will be EV based will be implemented as following year wise manner-</p> <table border="1"> <thead> <tr> <th>Month/Years</th><th>No. of Vehicles</th><th>%</th></tr> </thead> <tbody> <tr> <td>1st Jan 2027</td><td>5</td><td>2</td></tr> <tr> <td>1st July 2027</td><td>18</td><td>7</td></tr> <tr> <td>1st January 2028</td><td>31</td><td>12</td></tr> <tr> <td>1st July 2028</td><td>51</td><td>20</td></tr> <tr> <td>1st January 2029</td><td>64</td><td>25</td></tr> <tr> <td>1st July 2029</td><td>77</td><td>30</td></tr> </tbody> </table> <p style="text-align: center;">EV Proposal for the Proposed expansion (Considering from start of production in the year 2027)</p> <p>Out of the total inbound and outbound frequency of vehicles calculated as 1004 Nos. per day will be reduced to 703 Diesel based and remaining 30% that is 301 nos. will be EV based will be implemented as following year wise manner-</p> <table border="1"> <thead> <tr> <th>Month/Years</th><th>No. of Vehicles</th><th>%</th></tr> </thead> <tbody> <tr> <td>1st July 2027</td><td>20</td><td>2</td></tr> <tr> <td>1st January 2028</td><td>70</td><td>7</td></tr> <tr> <td>1st July 2028</td><td>120</td><td>12</td></tr> <tr> <td>1st January 2029</td><td>201</td><td>20</td></tr> <tr> <td>1st July 2029</td><td>251</td><td>25</td></tr> <tr> <td>1st January 2030</td><td>301</td><td>30</td></tr> </tbody> </table>	Month/Years	No. of Vehicles	%	1st Jan 2027	5	2	1st July 2027	18	7	1st January 2028	31	12	1st July 2028	51	20	1st January 2029	64	25	1st July 2029	77	30	Month/Years	No. of Vehicles	%	1st July 2027	20	2	1st January 2028	70	7	1st July 2028	120	12	1st January 2029	201	20	1st July 2029	251	25	1st January 2030	301	30
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3.	Commitment for OLBC installation from Limestone Mines to Cement Plant	<p>Ø The existing crusher and OLBC having capacity of 2000 TPH will be used to transport the limestone transportation from Marwar Mundwa ML-1 & Marwar Mundwa ML-2 to Cement Plant. Further it is proposed to install the additional OLBC at auctioned blocks (3D2 and HPB20) & Marwar Mundwa ML-1 to transport the limestone to cement plant which will be completed with the start of production from proposed clinker line no. 2,3, & 4. Hence, the limestone from the day one from all above 04 nos limestone mine will be transported by OLBC to the Marwar Mundwa cement plant.</p>																																										
4	Revised PH Action Plan with increase of public hearing	<p>Socio-Economic Development Plan as per OM dated 30.09.2020 along-with physical targets and timeline is prepared incorporating issues raise during public hearing held on 27.05.2025</p> <p style="text-align: center;">The breakup of the budget is given as below:</p>																																										

Sl. No	Additional Detail	Reply																																									
	compliance budget from 55.81 cr to 130 cr.	<table><tr><th>SN</th><th>CER Activity</th><th>Budget, Rs in Cr</th></tr><tr><td>1</td><td>Infrastructure</td><td>45.04</td></tr><tr><td>2</td><td>Cattle shelter</td><td>15</td></tr><tr><td>3</td><td>Education</td><td>41</td></tr><tr><td>4</td><td>Medical Facilities</td><td>10</td></tr><tr><td>5</td><td>Anganwadi Development</td><td>0.25</td></tr><tr><td>6</td><td>Drinking water supply</td><td>0.5</td></tr><tr><td>7</td><td>Water resource Management</td><td>10</td></tr><tr><td>8</td><td>Women's empowerment</td><td>1.5</td></tr><tr><td>9</td><td>Agro-based Livelihood Program</td><td>1.3</td></tr><tr><td>10</td><td>Plantation</td><td>2.0</td></tr><tr><td>11</td><td>Academic and industry research initiatives with Govt reputed institute on climate resilient research for farmer's income generation and water conservation</td><td>5.0</td></tr><tr><td></td><td>Total</td><td>131.59</td></tr></table> <p>Note: All the above-mentioned socio-economic development will be implemented in the villages of the study area as well as along the villages of proposed OLBC route for expansion.</p> <p>The item wise details of the PH action plan is submitted and updated at relevant para above.</p>			SN	CER Activity	Budget, Rs in Cr	1	Infrastructure	45.04	2	Cattle shelter	15	3	Education	41	4	Medical Facilities	10	5	Anganwadi Development	0.25	6	Drinking water supply	0.5	7	Water resource Management	10	8	Women's empowerment	1.5	9	Agro-based Livelihood Program	1.3	10	Plantation	2.0	11	Academic and industry research initiatives with Govt reputed institute on climate resilient research for farmer's income generation and water conservation	5.0		Total	131.59
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Deliberations by the Committee

19.1.21 The Committee noted the following:

1. The instant proposal is for expansion of Integrated Cement Plant (Clinker: 3.0 MTPA to 15.06 MTPA, Cement: 4.5 MTPA to 14.5 MTPA, CPP: 50 MW (No Change), WHRS 15 MW to 87 MW, DG Set (9190 kVA), AFR Pre-processing & Feeding System (4250 TPD), Synthetic Gypsum Plant (5000 TPD) and Fly Ash Dryer: 1000 TPD, Railway siding with Wagon Tippler & Loader by Installation of new Line – 2, 3 & 4 and Plant Residential Colony.
2. The existing project was accorded environmental clearance vide letter No: J-11011/394/2010-IA-II (I) dated 5th May, 2011 for Integrated Cement Project i.e. Clinker (3.0 Million TPA), Cement (4.5 Million TPA), Captive Power Plant (50 MW) & Waste Heat Recovery Boiler (9.0 MW) at Village – Marwar Mundwa, Tehsil & District: Nagaur (Rajasthan) of M/S Ambuja Cements Limited.(Extent-285.10 ha). The MoEF&CC granted extension of validity for further 3 years upto 4th May 2021 and amendment in reduction in area from 285.10 ha to 263.76 ha of the existing EC vide letter no. Z-11011/6/2013 – IA.II (I)pt dated 31st August 2018. The existing project was accorded Consent to Operation vide Reference No. F(CPM)/Nagaur(Nagaur)/3(1)/2022- 2023/5041-5043dated 03/11/2023. The validity is valid up to 31/10/2028. In addition Consent to Operate for the existing Waste Heat Recovery Boilers (WHRB):6 MW was accorded by Rajasthan State Pollution Control Board vide Ir. No. F(CPM)/Nagaur(Nagaur)/3(1)/2022-2023/107-109 Dated 6.4.2023. The validity of CTO is up to 30.06.2027.

3. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
4. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
5. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
6. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
7. The EAC reviewed the compliance statement submitted by the project proponent regarding the applicability of MoEF&CC's Office Memorandums and Notifications to their proposal which include aspects such as land acquisition status / presence of streams or nallahs within the site / validity of baseline data / validity of the Certified Compliance Report / validity of the Public Hearing (PH), among other relevant factors. Upon examination, the Committee observed that the proposal pertains to an expansion within the existing premises, involving only a marginal additional area, and found it suitable for further appraisal.
8. **While appraising the proposal, the Committee noted that there are representations, including VIP references, regarding the project, and accordingly, details were also sought at EDS stage. The submissions of PP, in this regard, are placed at Point no.11 of the EDS Response, at Para 19.1.5 above. The Committee also took note of the fact that the IA-CMD, MoEFCC is already dealing with the issue being the nodal division to deal with compliance and monitoring, and a factual report is sought from Sub-Regional Office Jaipur, under MoEF&CC Regional Office, Gandhinagar. The PP's summarised response is based on the same factual report. The Committee noted that the RO MoEFCC has addressed the issues based on a site inspection, and has already submitted its response to the IA CMD. A perusal of the factual report submitted by RO MoEFCC (Sub-Office Jaipur) has indicated that the issues raised by Hon'ble MP have been duly examined, and there is no adverse observations w.r.t. issuance of previous ECs, plant's location, employment, plant's operation, and proposed plan to achieve net zero target in 2050.**
9. The total area for the proposed plant is 263.76 Ha. The land is under the possession of the company and diverted for industrial purpose use. The proposed expansion will be carried out within the existing plant premises. No additional land is required for expansion of proposed project.

10. Marwar Mundwa Town is at a distance of 0.2 km in South of project site along with other sensitive areas within the study area of the project site. The EAC opined that in view of the habitation nearby, PP is required to take strict environmental safeguards to minimise the impact of industrial activities on the local population. Accordingly, EAC asked the **the PP to Install Wind breaker/ wind shield arrangement towards the Mundwa village for arresting the dust within industrial premises, and develop 50 m greenbelt towards the village. The project proponent may further strengthen the green belt all around the plant area to reduce the dust pollution.** The PP shall also include some of the habitations in its environmental monitoring programme to assess the effectiveness of the measures so employed.
11. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
12. Lakhohlaw Talab is at a distance of 0.9 km in South along with other water bodies within the study area of the project site. The EAC opined that robust drainage conservation measures shall be implemented to protect the natural drainage, and its flow parameters, duly covering soil conservation and multiple erosion control measures.
13. Existing water requirement is 2000 KLD, which is met from three sources namely (i) PHED Nagaur, permission letter dated 31/10/2017 (200 KLD), (ii) Marwar Mundwa Nagar Palika for supply for domestic sewage water for further treatment in STP (300 KLD) and (iii) Brackish Raw Water supply from Kasnau Matasukh Lignite Mines, District Nagaur (Agreement for 3000 KLD in between ACL & RSMML dated 06/02/2019). The additional water requirement for the proposed expansion is 4835 KLD and the additional source of water will be Nagar Palika Nagaur to supply 2000 KLD Sewage water from for treatment in STP. The additional water of 1505 KLD will be supplied from Plant STP (535 KLD) and ETP (970). After the expansion the total water requirement will be 6835 KLD and the source will be 7005 KLD. The EAC deliberated on the water requirement and opined that necessary permission shall be obtained from the Competent Authority.
14. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and opined that a project specific AAQ plan shall be prepared and implemented. The PP submitted a detailed plan comprising enhancement of greenbelt (minimum 30 m along plant boundary and >50 m towards Marwar Mundwa village), increase in plantation density, installation of additional physical barriers, covered storage and transport of raw materials, increased rail-based transportation, high-efficiency bag filters/ESP to maintain PM emissions <30 mg/Nm³, paved internal roads with mechanized cleaning, water sprinkling/fog cannons, and automated tyre washing systems. **The Committee advised the PP to ensure time-bound implementation and regular monitoring. Further, the EAC advised the PP to ensure that particulate matter emissions from the existing and revamped production units are maintained within 20 mg/Nm³. The PP committed to meet stricter standards of PM i.e. 20 mg/Nm³, during appraisal.**

15. The Committee deliberated on the proposal for phase-wise adoption of electric vehicles (EVs) for inbound and outbound transportation of raw materials and finished products. The PP informed that a target of 30% EV-based transportation has been planned for both existing operations and the proposed expansion. For existing operations, the PP proposed to progressively replace diesel vehicles to achieve 30% EV penetration (77 vehicles/day) by July 2028, while for the proposed expansion, 30% EV adoption (301 vehicles/day) is proposed by January 2029. The start of production is proposed in 2027. **The Committee noted the phased EV implementation schedule and advised the PP to ensure timely achievement of the proposed targets, along with development of requisite charging infrastructure and periodic reporting on implementation progress through compliance reports.**
16. It is reported that as per the Wildlife Amendment Act, 2022 there are 7 nos of schedule-I species present in the study area i.e. Jackal, Black buck, Indian Gazelle/Chinkara, Indian grey mongoose, Indian crested porcupine, Peacock and Shikara. Wildlife Conservation Plan has been submitted to DCF Nagaur for their further approval vide our letter dated 23.12.2025. The cost of Conservation Plan will be Rs. 166.88 Lakhs. The EAC opined that the recommendations of the approved plan shall be strictly implemented in consultation with the State Forest Department.
17. The Committee also deliberated on the public hearing issues and the revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
18. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.
19. Existing green belt has been developed in 85.10 ha area which is about 33 % of the total project area of 263.76 ha with total sapling of 127650 Trees. Proposed greenbelt will be developed in 5.26 ha. Thus, total of 90.36 ha area (34.26% of total project area 263.76 ha) will be developed as greenbelt. Total no. of 13,150 saplings will be planted and nurtured in 5.26 hectares in next 3 years. The EAC deliberated on the greenbelt action plan and is of the opinion that greenbelt shall be completed within a period of 1 year in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025.
20. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
21. The EAC deliberated on the certified compliance reports obtained from Regional Office, and found it satisfactory.
22. **The Committee asked PP to make submissions on limestone sourcing for the cement plant expansion proposal. The PP submitted that limestone from the existing mines and newly auctioned blocks would be utilised. The expansion of existing mines is also proposed. The**

mines shall also be utilized for other nearby units, and accordingly, the present application has been submitted without interlinking of proposals.

23. The Committee deliberated on the PP's commitment for installation and use of Overland Belt Conveyor (OLBC) systems for transportation of limestone from the mines to the cement plant. The PP informed that the existing crusher and OLBC system of 2000 TPH capacity will be utilized for transportation of limestone from Marwar Mundwa ML-I and ML-II. **Further, additional OLBC systems are proposed to be installed from the auctioned limestone blocks (3D-2 and HPB-20) and Marwar Mundwa ML-1, which shall be completed and commissioned along with the start of production of proposed clinker lines no. 2, 3 and 4. In view of the submissions, Committee noted as below:**
- (a) **Limestone from all four limestone mines shall be transported exclusively through OLBC from day one of operation, thereby minimizing road transportation and associated fugitive emissions**
 - (b) **PP shall ensure that the OLBC installation commitments present herein are appropriately incorporated and aligned in the Environmental Clearances of the concerned limestone mines, while submitting the proposals for appraisal before the Non-Coal Mining Sector of MoEF&CC, so as to ensure consistency in environmental safeguards.**
24. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.
25. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
26. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
27. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

- 19.1.22 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal under the provisions of EIA Notification, 2006 for grant of Environment Clearance,

subject to uploading of written submission, on the PARIVESH portal. The EAC categorically noted that the recommendation to grant EC is technical in nature under the provisions of the EIA Notification 2006, and subject to the fulfilment of commitments made by the PP to secure all the permissions/ approvals/ consents from Central/ State Authorities, as may be required. The recommendation does not create an obligation for authorities that handle issues related and relevant to construction and operation of the project under other independent procedures/ statutes, including the provisions stipulated in the Land Acquisition (R&R) Act, 2013. The specific and general conditions are mentioned below:

A. Specific Condition:

- i. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- ii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iii. The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iv. The Captive Power Plant(s) using coal or lignite shall comply with emission standards notified vide G.S.R. 465(E) dated 11-07-2025.
- v. Marwar Mundwa Town is at a distance of 0.2 km in South of project site along with other sensitive areas within the study area of the project site. Project proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. **The PP shall Install Wind breaker/ wind shield towards the Mundwa village for reducing the dust propagation.** The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution specifically including 50 m greenbelt towards village. The PP shall also include some of these locations in its environmental monitoring programme.
- vi. Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
- vii. Lakhoh Talab is at a distance of 0.9 km in South along with other water bodies within the study area of the project site. Robust drainage conservation measures shall be implemented to protect the natural drainage, and its flow parameters, duly covering soil conservation and multiple erosion control measures.
- viii. The additional water requirement for the proposed expansion is 4835 KLD and the additional source of water will be Nagar Palika Nagaur to supply 2000 KLD Sewage water from for treatment in STP. The additional water of 1505 KLD will be supplied from Plant STP (535 KLD) and ETP (970). After the expansion the total water requirement will be 6835 KLD. Necessary permission shall be obtained from the Competent Authority.

- ix. **PP shall ensure time-bound implementation and regular monitoring of specific AAQ Plan. Further, PP shall ensure that particulate matter emissions from new production units shall be maintained below 20 mg/Nm³. Further, existing units may be revamped to achieve 20 mg/Nm³, within two years.**
- x. **PP shall ensure timely achievement of the proposed EV targets, such that existing production shall achieve 30% EV penetration (77vehicles/day) by July 2028, while transportation for enhanced production (*as per instant expansion proposal*) shall achieve 30% EV adoption (301vehicles/day) by January 2029.** As committed, PP shall also develop requisite charging infrastructure, and undertake periodic reporting on implementation progress.
- xi. Green Belt shall be developed and maintained in the project area in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025 within a period of 1 year. As committed, total of 90.36 ha area (34.26%) will be developed as greenbelt (existing - 85.10 ha + Proposed 5.26 ha area).
- xii. The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at (<https://merilife.nic.in>).
- xiii. PP shall ensure that limestone from all four limestone mines shall be transported exclusively through OLBC only. Accordingly, PP shall update compliance on implementation of the proposed OLBC systems in half yearly compliance reports.
- xiv. All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. **The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented, which is amounting to Rs.131.59 Crores.** The action plan shall also cover activities related to (i) promotion of environmental education and awareness (including green skills), and (ii) sub-plan to address the vulnerable sections (*such as the elderly, children, pregnant women, persons with disabilities, and the terminally ill*). An institutional mechanism shall be developed for monitoring the implementation of the commitments made, which shall also manage and address public grievances. The progress of implementation of PH Action plan and grievance redressal shall be submitted regularly to the Regional Office of MoEF&CC.
- xv. The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village in consultation with the State Administration.
- xvi. PP shall implement the skill development programs, in alignment with relevant Government initiatives/ programmes (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC.
- xvii. PP shall Install CO sensors with alarms at strategic locations in the Plant.
- xviii. PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.)

through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.

- xix. PP shall establish a dedicated in-house Research & Development (R&D) cell aimed at identifying, evaluating, and implementing emerging clean technologies. The focus of this cell will be on enhancing process efficiency, minimizing waste generation, and promoting circular economy practices within the plant operations. The effectiveness of the R&D initiatives shall be reviewed periodically, and outcomes contributing to sustainability shall be documented and reported
- xx. The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded, compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.
- xxi. The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

B. General Conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
- ii. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.

- iii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- ix. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- x. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
- xi. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
- xii. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
- xiii. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
- xiv. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
- xv. **The particulate matter emissions from the process stacks shall be less than 20 mg/Nm³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.**
- xvi. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- xvii. Provide Low NO_x burners as primary measures and SCR /NSCR technologies as secondary measure to control NO_x emissions.
- xviii. The emission norms applicable for the cement plant shall be adhered to.
- xix. Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.
- xx. DeSO_x system shall be provided dry type. NO_x level shall be maintained below 600 mg/Nm³ by using best available technology.

- xxi. Petcoke dosing shall be controlled automatically to control SO₂ emission from chimney within the prescribed limits.
- xxii. PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.
- xxiii. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
- xxiv. During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
- xxv. The coal dust should be monitored at coal unloading, crushing, furnace/ kiln areas and should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- iv. Water meters shall be provided at the inlet to all unit processes in the plants.
- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
- vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- ix. Air Cooled condensers shall be used in the captive power plant.

IV. Noise monitoring and prevention

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

- iii. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

V. Energy Conservation measures

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.
- iii. The project proponent make efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
- iv. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.
- v. Maximize utilization of alternate fuels and Co-processing to achieve best practice norms.
- vi. Waste heat recovery system shall be provided for kiln and cooler.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.
- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iv. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <https://cpcb.nic.in/technical-guidelines-3/>. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
- ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust

pollution from exposed soil surface.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- viii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
- xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
- xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xvii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Agenda No. 19.2

- 19.2 Expansion of existing Cement Plant (Clinker, Cement & WHRS) by installation of a new line of clinkerisation & cement grinding with WHRS” by M/s. Dalmia Cement (Bharat) Ltd, located at Village- Chinnakomerla & Dugganpalli, Mandal- Mylavaram District- YSR Kadapa State- Andhra Pradesh- Consideration of EC.**

[Proposal no.: IA/AP/IND1/542780/2025: File No. IA-J-11011/76/2007-IA-II (IND-I)]

[Consultant: Perfact Enviro Solutions Pvt. Ltd.; Valid upto: 26.11.2028]

- 19.2.1 M/s. Dalmia Cement (Bharat) Ltd. has made an application online vide proposal no. IA/AP/IND1/542780/2025 dated 30.12.2025 along with copy of EIA report and Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(b) Cement Plants under Category ‘A’ of the schedule of the EIA Notification, 2006 and being appraised at the Central Level.
- 19.2.2 Name of the EIA consultant: M/s. Perfact Enviro Solutions Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter No: NABET/EIA/2225/RA 0284 (Rev.01); valid upto 26.11.2028].

Details submitted by Project proponent

- 19.2.3 The detail of the ToR is furnished as below:

Date of application	Consideration	Details	Date of accord	ToR Validity
18.03.2024	60 th EAC (Industry-1) meeting held on 11 th and 12 th June, 2024	Terms of Reference	01.07.2024	30.06.2028

- 19.2.4 The project of M/s Dalmia Cement (Bharat) Ltd. located in Chinnakomerla & Dugganpalli Village, Mylavaram Mandal, YSR Kadapa District, Andhra Pradesh is for expansion of existing Integrated Cement Plant (Clinker, Cement & WHRS) by installation of a new line of clinkerisation & cement grinding with WHRS for enhancement of production of cement (OPC/PPC/PSC/Composite Cement/SRPC, GGBFS and other varieties of cement) from 4.6 MTPA to 12.6 MTPA , Clinker from 2.6 MTPA to 7.6 MTPA & WHRS from 12 MW to 28 MW.
- 19.2.5 The proposal was considered during the 19th meeting of the EAC for Industry-I sector held during 9th January, 2026. The deliberation and recommendations of EAC are as follows:

Deliberations by the Committee

- 19.2.6 The Committee noted the following:
- The Committee took note of the information submitted by the PP regarding the ongoing litigations, including the proceedings before the Hon’ble High Court of Andhra Pradesh and the pending appeal before the Appellate Authority under the Prevention of Money Laundering Act (PMLA).

- ii. The Committee noted that the writ petitions before the Hon'ble High Court relating to the public hearing process have been disposed of with directions to follow the procedure prescribed under the EIA Notification, 2006
- iii. The matter relating to provisional attachment of certain project land parcels under the PMLA is pending before the Appellate Authority. The Committee observed that, although the PP has stated that the attachment is provisional in nature and does not legally restrict the use of land, clarity is required with respect to the status of the project land proposed for the present expansion. In view of the pending proceedings before the Appellate Authority concerning provisional attachment of land, the Committee opined that clarity on the same is essential prior to further appraisal.
- iv. Accordingly, the Committee concluded that it is not competent to comment on the PMLA case in this project. The EAC told PP that they should submit all legal documents related to the case to Ministry, and based on legal and other documents so submitted, the Ministry may decide whether the project can be appraised or not by EAC- Industry-1.

Recommendations of the Committee

- 19.2.7 In view of the foregoing and after detailed deliberations, **the Committee decided to return the proposal in present form.** PP may submit a fresh proposal after resolution of above-mentioned issue.

Agenda No. 19.3

- 19.3 Regularization of existing Steel Plant for Steel Tubes & Pipes (Black & Galvanized) & Precision, Tubes (0.072 MTPA), CGI Sheet(Continuous Galvanizing Line) (0.072 MTPA), Fabricated Structure (0.018 MTPA), Steel Tube & Pipes (Black) (Tube Mill- 2.5") (0.048 MTPA) by M/s. Goodluck Metallics (Unit of Goodluck India Limited), located at Survey No. 495 (Includes 497, 497/P-1, 498, 499, 500/1, 500/2, 501/P-1, 501/P-2, 501/P-3 and 502) Village: Sikra, Tal: Bhachau, Dist: Kachchh -Consideration of EC.**

[Proposal no.: IA/GJ/IND1/557413/2025: File No. IA-J-11011/240/2023-IA-II (IND-I)]

[Consultant: Perfact Enviro Solutions Pvt. Ltd.; Valid upto: 02.11.2030]

- 19.3.1 M/s Goodluck Metallics (Unit of Goodluck India Limited) has made an online application vide proposal no IA/GJ/IND1/557413/2025 dated 11.11.2025 along with copy of EIA/EMP report, Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous & non-ferrous) under Category "A" of the schedule of the EIA Notification, 2006 due to Secondary Metallurgical Process involving Toxic Metal (Lead) having capacity ≥ 0.02 MTPA and therefore appraised at Central Level.

- 19.3.2 Name of the EIA consultant: M/s. Perfact Enviro Solutions Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter No: NABET/EIA/2225/RA 0284 (Rev.01); valid upto 26.11.2028].

Details submitted by Project proponent

- 19.3.3 The details of the ToR are furnished as below:

Date of application	Consideration	Details	Date of Accord	TOR Validity
10.07.2023	Standard TOR issued	Terms of Reference	20.07.2023	19.07.2028
<p>The company was directed by GPCB in November 2021 to obtain Environmental Clearance in compliance with the Hon'ble NGT order dated 20.10.2020. Accordingly, in pursuance of the EIA Notification S.O. 3250(E) dated 20.07.2022 issued by MoEF&CC and its extension dated 26.07.2023, a ToR application was submitted to the Gujarat-SEAC in November 2022, which was subsequently withdrawn from the PARIVESH portal and the withdrawal was acknowledged by SEIAA-Gujarat in April 2023. Thereafter, the company applied to MoEF&CC and obtained Standard Terms of Reference in July 2023 for a total land area of 30.8271 ha, comprising existing and proposed expansion land. However, as the proposed expansion land could not be acquired, the EIA prepared under the said ToR was not taken forward and the ToR was not further pursued. Subsequently, owing to a change in project configuration, a fresh ToR application was submitted in 2025 for expansion activities proposed within the existing land area of 21.489 ha. Upon Essential Details Sought (EDS) being raised in the 2025 ToR proposal, the company opted to proceed under the regularization route and accordingly submitted an application for Environmental Clearance in November 2025 strictly in accordance with the ToR dated 20.07.2023 along with the EIA/EMP, Form and certified compliance report, in accordance with the provisions of the EIA Notification, 2006.</p>				

- 19.3.4 The project of M/s. Goodluck Metalics (Unit of Goodluck India Limited), located at Survey No. 495 (Includes 497, 497/P-1, 498, 499, 500/1, 500/2, 501/P-1, 501/P-2, 501/P-3 and 502) Village: Sikra, Tal: Bhachau, Dist: Kachchh, Gujarat is for regularization of existing Steel Plant for Steel Tubes & Pipes (Black & Galvanized) & Precision, Tubes (0.072 MTPA), CGI Sheet(Continuous Galvanizing Line) (0.072 MTPA), Fabricated Structure (0.018 MTPA), Steel Tube & Pipes (Black) (Tube Mill- 2.5") (0.048 MTPA) under the provisions of MoEF&CC Notification S.O. 3250(E), dated 20th July, 2022.

- 19.3.5 Details of EDS:

Details of EDS sought by Ministry	Reply of PP
The Form is not filled properly, and in compliance of ToR. PP may revisit its submissions and resubmit the application.	The application has been revisited in line with the ToR requirements, and the necessary corrections have been duly incorporated. Accordingly, the revised application has been resubmitted along with the updated EIA application for your kind consideration.

- 19.3.6 Environmental Site Settings:

S. No.	Particulars	Details						Remarks
1	Total land	Total land: 21.4943 ha						Land use: Industrial Land
		S.No.	Particular	Existing Area, m ²	Proposed area (m ²)	Total area (m ²)	%	
		A	Processing Area					
		1	Manufacturing plant	43542	0	43542	20.26	

S. No.	Particulars	Details						Remarks																																		
		2	Furnace Shed	6160	0	6160	2.87																																			
		3	Trail assembly area	34405	0	34405	16.01																																			
		B	Utility Area																																							
		1	Power Station	792	0	792	0.37																																			
		2	Cooling Tower	400	0	400	0.19																																			
		3	Admin (Security Cabin, Toilet Block, Canteen, Lab. Misc.,	2798	0	2798	1.30																																			
		4	Stock Yard Rolling Mills	4800	0	4800	2.23																																			
		5	Shed (RM storage)	4544	0	4544	2.11																																			
		6	Hazardous waste storage area	440	0	440	0.20																																			
		7	Parking	350	0	350	0.16																																			
		8	Greenbelt	19340	23649	42989	20.00																																			
		9	Internal Road	9600	0	9600	4.47																																			
		10	Open Area	87772	23649	64123	29.83																																			
		Total Area, m ²		214943	-	214943	100																																			
2	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Total land area 21.4943 ha is already acquired. The land has been converted from Agricultural to industrial use from the Collector office, Kachchh-Bhuj Vide Certificate No. Jaman-7-N.A.-65-B-Case No. 8/2017-18, No. Jaman-7-N.A.-65-B-Case No.9/2017-18 and No. Jaman-7-N.A.-65-B-Case No. 10/2017-18 dated 11.01.2018						-																																		
3	Existence of habitation & involvement of R&R, if any.	<div>Project site: Nil</div> <div>Study Area:</div> <table><thead><tr><th>Nearest Habitation</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>Shikara</td><td>1.01 km</td><td>West</td></tr></tbody></table>						Nearest Habitation	Distance	Direction	Shikara	1.01 km	West	R& R- N/A																												
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4	Latitude and Longitude of all corners of the project site	<table><thead><tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr></thead><tbody><tr><td>A</td><td>23°20'22.13"N</td><td>70°18'59.61"E</td></tr><tr><td>B</td><td>23°20'28.61"N</td><td>70°18'46.53"E</td></tr><tr><td>C</td><td>23°20'30.68"N</td><td>70°18'47.55"E</td></tr><tr><td>D</td><td>23°20'34.08"N</td><td>70°18'48.46"E</td></tr><tr><td>E</td><td>23°20'33.95"N</td><td>70°18'51.90"E</td></tr><tr><td>F</td><td>23°20'34.44"N</td><td>70°19'02.14"E</td></tr><tr><td>G</td><td>23°20'37.40"N</td><td>70°19'17.66"E</td></tr><tr><td>H</td><td>23°20'36.38"N</td><td>70°19'17.93"E</td></tr><tr><td>I</td><td>23°20'35.38"N</td><td>70°19'17.91"E</td></tr><tr><td>J</td><td>23°20'33.14"N</td><td>70°19'17.29"E</td></tr><tr><td>K</td><td>23°20'30.65"N</td><td>70°19'16.77"E</td></tr><tr><td>L</td><td>23°20'29.81"N</td><td>70°19'16.53"E</td></tr></tbody></table>	Point	Latitude	Longitude	A	23°20'22.13"N	70°18'59.61"E	B	23°20'28.61"N	70°18'46.53"E	C	23°20'30.68"N	70°18'47.55"E	D	23°20'34.08"N	70°18'48.46"E	E	23°20'33.95"N	70°18'51.90"E	F	23°20'34.44"N	70°19'02.14"E	G	23°20'37.40"N	70°19'17.66"E	H	23°20'36.38"N	70°19'17.93"E	I	23°20'35.38"N	70°19'17.91"E	J	23°20'33.14"N	70°19'17.29"E	K	23°20'30.65"N	70°19'16.77"E	L	23°20'29.81"N	70°19'16.53"E	
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S. No.	Particulars	Details			Remarks																																																			
		M	23°20'29.41"N	70°19'16.00"E																																																				
		N	23°20'28.84"N	70°19'16.36"E																																																				
		O	23°20'27.97"N	70°19'16.20"E																																																				
		P	23°20'28.23"N	70°19'14.48"E																																																				
		Q	23°20'28.14"N	70°19'12.71"E																																																				
		R	23°20'28.42"N	70°19'10.63"E																																																				
		S	23°20'28.19"N	70°19'09.75"E																																																				
		T	23°20'28.78"N	70°19'09.01"E																																																				
		U	23°20'28.23"N	70°19'04.28"E																																																				
		V	23°20'27.84"N	70°19'02.33"E																																																				
		W	23°20'26.84"N	70°19'02.11"E																																																				
		X	23°20'25.50"N	70°19'01.54"E																																																				
5	Elevation of the project site	35 m to 49 m above mean sea level (as per google earth)																																																						
6	Involvement of Forest land if any	No forest land is involved in the project for the same a clarification has been obtained for non-involvement of forest land from Chief Conservator of Forests, Kutch Forest circle, Bhuj vide letter No. K/JMN/TE.9/960-61/2024-25 dated 14.02.2025.																																																						
7	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal, etc.) exists within the project site as well as study area	<p>Project site: Nil</p> <p>Study area:</p> <table><thead><tr><th>Water body</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>Pond near Project Area</td><td>0.08 Km</td><td>S</td></tr><tr><td>Pond near Project Area</td><td>0.09 Km</td><td>S</td></tr><tr><td>Drain near Sikra</td><td>0.45 Km</td><td>WNW</td></tr><tr><td>Pond near Project Area (not showing Topomap)</td><td>0.71 Km</td><td>ENE</td></tr><tr><td>Kachchh Branch Canal (not Showing Topomap)</td><td>3.49 Km</td><td>SE</td></tr><tr><td>Khambharadi Lake</td><td>5.39 Km</td><td>W</td></tr><tr><td>Batiya Pond</td><td>5.96 Km</td><td>SSE</td></tr><tr><td>Bhachau Lake</td><td>6.60 Km</td><td>SSE</td></tr><tr><td>Gadasar Pond</td><td>7.15 Km</td><td>SSE</td></tr><tr><td>Pakadsar Pond</td><td>7.24 Km</td><td>WSW</td></tr><tr><td>Chopadva Pond</td><td>7.50 Km</td><td>SW</td></tr><tr><td>Dhokav Drain</td><td>8.12 Km</td><td>SSW</td></tr><tr><td>Mayanwala Drain</td><td>8.58 Km</td><td>SE</td></tr><tr><td>Dalwala Drain</td><td>8.67 Km</td><td>SSE</td></tr><tr><td>Katwala Drain</td><td>9.27 Km</td><td>SSE</td></tr><tr><td>Jasulai Pond</td><td>9.43 Km</td><td>SE</td></tr></tbody></table>			Water body	Distance	Direction	Pond near Project Area	0.08 Km	S	Pond near Project Area	0.09 Km	S	Drain near Sikra	0.45 Km	WNW	Pond near Project Area (not showing Topomap)	0.71 Km	ENE	Kachchh Branch Canal (not Showing Topomap)	3.49 Km	SE	Khambharadi Lake	5.39 Km	W	Batiya Pond	5.96 Km	SSE	Bhachau Lake	6.60 Km	SSE	Gadasar Pond	7.15 Km	SSE	Pakadsar Pond	7.24 Km	WSW	Chopadva Pond	7.50 Km	SW	Dhokav Drain	8.12 Km	SSW	Mayanwala Drain	8.58 Km	SE	Dalwala Drain	8.67 Km	SSE	Katwala Drain	9.27 Km	SSE	Jasulai Pond	9.43 Km	SE	
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8	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the	<p>Study area</p> <p>Name of the ESZ/ESA: Rann of Kutch Wildlife Sanctuary.</p> <p>Status of Notification: Eco-Sensitive Zone (ESZ), notified vide MoEF&CC Notification No. S.O. 3150(E) dated 29.08.2019</p> <p>Distance of project from ESZ/ESA: Rann of Kutch Wildlife</p>																																																						

S. No.	Particulars	Details	Remarks
	study area	<p>Sanctuary: 7.2 km and its Eco-Sensitive Zone (ESZ): 6.2 km</p> <p>Authenticated map of ESZ projecting distance of ESZ from project site: NOC obtained from the Chief Conservator of Forests, Kutch Forest Circle, Bhuj vide letter No. K/JMN/TE.9/960-61/2024-25 dated 14.02.2025 mentioning that Rann of Kutch Wildlife Sanctuary is located at 7.2 km from the project site and its Eco-Sensitive Zone (ESZ) is 6.2 km from project site.</p> <p>Status of NBWL approval: NA</p> <p>List of Reserved and protected forests: None (A letter has been obtained by Chief Conservator of Forests, Kutch Forest circle, Bhuj vide letter No. K/JMN/TE.9/960-61/2024-25 dated 14.02.2025 for non-involvement forest)</p>	

19.3.7 M/s Goodluck Metallics (Unit of Goodluck India Limited) has established a secondary steel products manufacturing plant with products “steel tubes & pipes (Black & Galvanized) & Precision Tubes, CGI Sheet, Steel Tubes & Pipes (Black) Fabricated Structure based on the CTE granted by Gujarat Pollution control Board vide CTE– 90272 dated 20.01.2018. As per EIA Notification, 2006, Schedule Activity 3(a), condition (ii), “In case of secondary metallurgical processing industrial units, projects involving only furnaces such as induction furnace, electric arc furnace, submerged arc furnace, and cupola with a capacity of more than 30,000 TPA would require environmental clearance.” Since the existing project comprised only annealing furnace and galvanising furnace, which were not covered under the above-mentioned provisions of Schedule Activity 3(a), hence, it does not fall under the requirement of environmental clearance earlier. The industry commenced plant operation in 2019 under Consent Order No. AWH-103896, issued vide office order No. PC/CCA-KUTCH-1467/GPCB ID-56168/527220 dated 03/09/2019. The project is presently operating under renewed and amended CTO vide Consent No. AWH-130308 dated 06/11/2023, valid up to 22/09/2028.

19.3.8 The unit configuration and capacity of existing project is given as below:

S. No.	Plant equipment/ Facility	Existing Configuration
1.	Annealing Furnace	1 x 2TPH
2	Continuous Galvanizing Plant	-
3	Non-IBR Boiler	2 x 850 Kg/Hr
4	Hot Water Generator (Attached to MEE)	-
5	DG Set	1 x 125 kVA

19.3.9 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S.No	Raw Material	Quantity required per annum	Source (Local/Import)	Distance from site (Kms)	Mode of Transportation
1	Lead	50	Local	431.5	Road
2	HR Coil	2,16,000	Local /Import	855.8	Road/Sea

3	Zinc	2000	Local	431.3	Road
4	HCl	7500	Local	487	Road
5	Paint	7200	Local	70	Road
6	Rolled Product & Plates	1500	Local	1683.7	Road
7	Billet/Round	-	Local	-	Road

19.3.10 Total water requirement (Industrial + Domestic) is 267 KLD. Water requirement is obtained from GWIL (Gujarat Water Infrastructure Limited) vide Letter No. GWIL/Kutch/Ind.Conn/F.No. 4288/127 dated 21.01.2020. Out of 267 KLD, 147 KLD is fresh water and remaining 120 KLD is treated water from ETP. Out of 147 KLD, 45 KLD is used for domestic purposes, 7 KLD in CGL process and 95 KLD in Industrial process. Out of 120 KLD of treated water 35 KLD is being reused in the industrial process, 13 KLD in scrubber, 57 KLD in cooling water, 15 KLD in boiler makeup.

19.3.11 The existing power requirement of 4.844 MW is obtained from Paschim Gujarat Vij Company Ltd. (PGVCL).

19.3.12 Baseline Environmental Studies:

Period	Baseline Data collection Period March 2023-May2023
AAQ parameters at 8 Locations (min and max)	PM _{2.5} = 41.03 µg/m ³ to 49.64 µg/m ³ PM ₁₀ = 80.75 µg/m ³ to 97.71 µg/m ³ SO ₂ = 6.49 µg/m ³ to 7.86 µg/m ³ NO _x = 17.66 µg/m ³ to 21.37 µg/m ³ CO = 0.37 mg/m ³ to 0.44 mg/m ³ Lead = BDL
Incremental GLC level	The worst case scenario (Normal or With APCS (Modeled on regulatory discharge norms) has been considered. PM ₁₀ : 0.916 µg/m ³ PM _{2.5} : 0.649 µg/m ³ NO ₂ : 3.93 µg/m ³ SO ₂ : 1.66 µg/m ³ CO: 0.008 mg/m ³
Ground water quality at 8 locations	pH: 6.72 to 7.68 Total Hardness: 152 mg/l to 1240 mg/l Chlorides: 106 mg/l to 439.86 mg/l Fluoride: 0.17 mg/l - 1.05 mg/l Heavy metals (Cadmium) : <0.001 -<0.001 Lead = <0.25
Surface water quality at 04 Locations	pH: 7.10 - 7.24 DO: 4.0 mg/l - 4.2 mg/l BOD: 24.7 mg/l - 39.2 mg/l COD: 96 mg/l - 152 mg/l Lead = <0.25
Noise levels Leq (Day and Night) at 09 Locations	56.3 to 73.1 dBA for the day time and 46.9 to 67.4 dBA for the night time.

Traffic assessment study findings	<ul style="list-style-type: none"> A traffic survey was carried out on both sides (up & down) of the Bhuj - Bhachau Highway (42). Vehicles were observed and the count was recorded for 24 hours. Existing : 			
	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio
	Bhuj -Bhachau Highway (42)	856	6120	0.14
	<ul style="list-style-type: none"> Proposed : 			
	Road	V (Volume in PCU/hr)	C (Capacity in PCU/hr.)	Proposed V/C Ratio
	Bhuj -Bhachau Highway (42)	856 + 3	6120	0.14
<p>*Note: Capacity as per IRC-106:1990 Guide line for capacity for roads.</p> <p>Conclusion: The carrying capacity of the Bhuj -bhachau HIGHWAY (42) is much higher than the proposed traffic volume. The traffic (to & fro) from the project. The volume/capacity ratio is the same from 0.14 to 0.14 with LOS being “A” to “A” only</p>				
Flora and fauna	<p>A total of 20 species listed under Schedule I of the Wildlife Protection Act, 1972 (amended in 2023) were identified including <i>Canis aureus</i>, <i>Equus hemionus</i>, <i>Felis chaus</i>, <i>Gazella bennettii</i>, <i>Hyaena hyaena</i>, <i>Hystrix indica</i>, <i>Urva edwardsii</i>, <i>Viverricula indica</i>, <i>Vulpes bengalensis</i>, <i>Accipiter badius</i>, <i>Gelochelidon nilotica</i>, <i>Haliastur indus</i>, <i>Pavo cristatus</i>, <i>Phoeniconaias minor</i>, <i>Platalea leucorodia</i>, <i>Ptyas mucosa</i>, <i>Python molurus</i>, <i>Naja naja</i>, <i>Saara hardwickii</i>, and <i>Varanus bengalensis</i>. The Wildlife Conservation Plan has been prepared and submitted to the Chief Conservator on 30.05.2025. A budget of INR 22.5 lakh has been earmarked for wildlife conservation over a period of five years.</p>			

19.3.13 The details of solid waste generation along with its mode of treatment/disposal is furnished as below:

Solid Waste Management

Name of the waste	Source	Quantity (TPA)	Mode of disposal
Biodegradable	Organic Waste	15	Treated in OWC & Utilized as bio manure
Non-Biodegradable	Recyclable Waste (Plastic, paper, wood, glass, etc)	30	Sell to authorized recycler

Other Waste Management

S.No.	Waste	Source	Proposed (TPA)	Disposal Method
1	Battery Waste	Used Batteries for process	0.3	Sell/dispose to authorized vendor as per Battery management rules 2022 and its amendment till date
2	E-Waste	Computer and other electrical	0.5	Sale to Authorized Vendor as per E-waste (Management) Rules 2022 &

		part/ Office electronic items		amended till date
3	First aid waste	First Aid Room	0.5	Is being given to vendors as per Bio-Medical Waste Management Rules 2016 and its amendment till date

Hazardous Waste Management

S. No.	Name of Waste	Source	Category as per HWM Rules, 2016	Quantity (MTA)	Disposal method
				Existing	
1	Used or Waste Oil	DG set	5.1	3	Sale to authorized recycler as per Rule 9 of HW Rules 2016
2	Air & Oil Filter	Process	5.2	30 Nos. (0.1 MT/Year)	Collection, Storage, Transportation and disposal to TSDF.
3	Oily Clothes & Used Hand Gloves			2.5	
4	Zinc Ash	Process	6.2	250	Collection, Storage, Transportation and disposal by selling out to registered recyclers.
5	Zinc Dross	Process	-	300	
6	Acidic Residue	Process	12.1	0.5	Collection, Storage, Transportation and disposal to TSDF
7	Phosphate Sludge	Process	12.5	2	Collection, Storage, Transportation and disposal to TSDF.
9	Discarded Containers/ Barrels/ Liners	Storage of Raw Materials	33.1	200 Nos./ Year	Collection, Storage, Transportation and disposal by send to authorized recyclers.
10	Resin	Water treatment	35.2	0.5	Collection, Storage, Transportation and disposal to TSDF.
11	ETP Sludge	ETP	35.3	1200	Collection, Storage, Transportation and disposal to TSDF.

19.3.14 Public Consultation: The Public Hearing is exempted as per MoEF&CC Notification S.O. 3250(E), dated 20th July, 2022.

19.3.15 The total capital cost of the project is INR 2024 Lakhs. The total annual recurring cost towards the environmental protection measures is INR 194 Lakhs per year. The employment generation from the project is 846 no (Permanent: 588 and Contractual: 258). The details of cost for environmental protection measures is as follows:

Budget for Environment Management Capital Cost (INR in Lakh)				
S. No.	Particulars	Existing	Proposed	Total
1	Air management	500	-	-
2	Solid and Hazardous Waste management	106	-	-

Budget for Environment Management Capital Cost (INR in Lakh)				
S. No.	Particulars	Existing	Proposed	Total
3	Wastewater management (ETP + Waste water treatment)	424	-	-
4	Noise pollution control	500	-	-
5	Greenbelt and Plantation	10	20	30
6	Environment monitoring	372	-	-
7	Occupational Health and Fire & Safety	34	-	-
8	Social Activities	58	-	-
	Total (INR in Lakh)	2004	20	2024

Budget for Environment Management Recurring Cost (INR Lakh/ Year)				
S. No.	Particulars	Existing	Proposed	Total
1	Air management	50	-	-
2	Solid and Hazardous Waste management	10	-	-
3	Wastewater management (ETP + Waste water treatment)	29	-	-
4	Noise pollution control	50	-	-
5	Greenbelt and Plantation	5	10	15
6	Environment monitoring	30	-	-
7	Occupational Health & Safety	10	-	-
	Total (INR Lakh/ Year)	184	10	194

19.3.16 The green belt area is 19340 sqm. has been developed with 6044 no. of trees which is about 9.0 % of plot area and proposed green belt area is 23649 sqm. with 18250 no. of trees which is 11% of plot area. Which will lead to a total green area of 42989 sqm with 24294 no. of trees i.e. 20% of the plot area. A 2m wide greenbelt around the plant boundary has been developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species have been planted.

19.3.17 It is reported that there is no violation under EIA, 2006/court case/show cause/direction related to the project under consideration.

Certified compliance report from SPCB

19.3.18 Certified compliance report has been issued by GPCB vide report no. PC/CCA-KUTCH-1467(4)/GPCB ID-56168/872904 dated 01.09.2025. As per the report, the conditions have been complied with.

19.3.19 Compliance statement w.r.t. the applicability of OMs:

S. No.	Particulars	Compliance	Remarks
1.	Land Acquisition Details	Total land area 21.4943 ha is already acquired. The land has been converted from Agricultural to industrial use from the Collector office, Kachchh-Bhuj Vide Certificate No. Jaman-7-N.A.-65-B-Case No. 8/2017-18, No. Jaman-7-N.A.-65-B-Case No.9/2017-18 and No. Jaman-7-N.A.-65-B- Case No. 10/2017-18 dated 11.01.2018	Land documents Enclosed with Annexure no. 14 of EIA Report.
2.	Distance From the nearest boundary of surface water body (flood plain/HFL/Red line) as per revenue records in case of industrial plant.	Pond near Project Area is at a distance of 0.08 Km in the South direction.	-
3.	Presence of Stream/nallah within the Project Site.	None	-
4.	Validity of Baseline data	Baseline data collected from March 2024 - May 2024 in Summer Season which is valid till May 2027	-
5.	Validity of Public Hearing	Not applicable	-
6.	Validity of CCR	Certified compliance report has been issued by GPCB vide report no. PC/CCA-KUTCH-1467(4)/GPCB ID-56168/872904 dated 01.09.2025 which is valid till 01.09.2026.	-

Written submission by the PP:

19.3.20 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 09.01.2026 through email dated 10.01.2026 submitted the following information:

1. Justification for High PM₁₀ Baseline Concentration:

The elevated PM₁₀ concentration observed during baseline monitoring is primarily attributed to nearby industrial activities, particularly clay mining and crushing operations. Additionally, the Kutch region is characterized by arid climatic conditions, which contribute to higher levels of suspended particulate matter. The project site is also located adjacent to a roadway, and frequent movement of transportation vehicles further adds to fugitive dust emissions, resulting in increased PM₁₀ levels.

2. Lead Concentration in Groundwater:

The reported lead concentration in groundwater was due to a typographical error in the laboratory test report. The correct lead concentration is <0.25 µg/L which is within acceptable limits.

Deliberations by the Committee

19.3.21 The Committee noted the following:

1. The instant proposal is for regularization of existing Steel Plant for Steel Tubes & Pipes (Black & Galvanized) & Precision, Tubes (0.072 MTPA), CGI Sheet(Continuous Galvanizing Line) (0.072 MTPA), Fabricated Structure (0.018 MTPA), Steel Tube & Pipes (Black) (Tube Mill-2.5") (0.048 MTPA) under the provisions of MoEF&CC Notification S.O. 3250(E), dated 20th July, 2022.
2. M/s Goodluck Metallics (Unit of Goodluck India Limited) has established a secondary steel products manufacturing plant with products “steel tubes & pipes (Black & Galvanized) & Precision Tubes, CGI Sheet, Steel Tubes & Pipes (Black) Fabricated Structure based on the CTE granted by Gujarat Pollution control Board vide CTE– 90272 dated 20.01.2018. As per EIA Notification, 2006, Schedule Activity 3(a), condition (ii), “In case of secondary metallurgical processing industrial units, projects involving only furnaces such as induction furnace, electric arc furnace, submerged arc furnace, and cupola with a capacity of more than 30,000 TPA would require environmental clearance.” Since the existing project comprised only annealing furnace and galvanising furnace, which were not covered under the above-mentioned provisions of Schedule Activity 3(a), hence, it does not fall under the requirement of environmental clearance earlier. The industry commenced plant operation in 2019 under Consent Order No. AWH-103896, issued vide office order No. PC/CCA-KUTCH-1467/GPCB ID-56168/527220 dated 03/09/2019. The project is presently operating under renewed and amended CTO vide Consent No. AWH-130308 dated 06/11/2023, valid up to 22/09/2028.
3. **The company was directed by GPCB in November 2021 to obtain Environmental Clearance in compliance with the Hon’ble NGT order dated 20.10.2020. Accordingly, in pursuance of the EIA Notification S.O. 3250(E) dated 20.07.2022 issued by MoEF&CC and its extension dated 26.07.2023, a ToR application was submitted to the Gujarat-SEAC in November 2022, which was subsequently withdrawn from the PARIVESH portal and the withdrawal was acknowledged by SEIAA-Gujarat in April 2023. Thereafter, the company applied to MoEF&CC and obtained Standard Terms of Reference in July 2023 for a total land area of 30.8271 ha, comprising existing and proposed expansion land. However, as the proposed expansion land could not be acquired, the EIA prepared under the said ToR was not taken forward and the ToR was not further pursued. Subsequently, owing to a change in project configuration, a fresh ToR application was submitted in 2025 for expansion activities proposed within the existing land area of 21.489 ha. Upon Essential Details Sought (EDS) being raised in the 2025 ToR proposal, the company opted to proceed under the regularization route and accordingly, submitted an application for Environmental Clearance in November 2025 strictly in accordance with the ToR dated 20.07.2023 along with the EIA/EMP, Form and certified compliance report, in accordance with the provisions of the EIA Notification, 2006.**
4. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
5. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be

rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

6. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
7. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
8. PP submitted that total land is 21.4943 ha. The land is under the possession of company and has been converted from Agricultural to industrial use from the Collector office, Kachchh-Bhuj Vide Certificate No. Jaman-7-N.A.-65-B-Case No. 8/2017-18, No. Jaman-7-N.A.-65-B-Case No.9/2017-18 and No. Jaman-7-N.A.-65-B-Case No. 10/2017-18 dated 11.01.2018.
9. Shikara is at a distance of 1.01 km in West along with other sensitive areas within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
10. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
11. There are ponds (0.8 km and 0.9 km in South) near the project area, Drain near Sikra (0.45 km, WNW), Pond near Project Area (0.71 km, ENE) along with other water bodies within the study area of the project site. The EAC opined that robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
12. The nearest eco-sensitive area to the project is the Rann of Kutch Wildlife Sanctuary, which has a notified Eco-Sensitive Zone (ESZ) as per MoEF&CC Notification dated 29.08.2019. The sanctuary is located at a distance of 7.2 km from the project site, while its ESZ lies at 6.2 km. The distances have been authenticated by the Chief Conservator of Forests, Kutch Forest Circle, Bhuj, through a certified map and letter dated 14.02.2025. The Committee opined that PP shall undertake suitable environmental safeguards to minimise the impact of project activities on Wildlife Sanctuary.
13. Total water requirement (Industrial + Domestic) is 267 KLD which is obtained from GWIL (Gujarat Water Infrastructure Limited). Out of 267 KLD, 147 KLD is fresh water and remaining 120 KLD is treated water from ETP. The EAC deliberated on the water requirement is of the opinion that PP shall secure necessary permission from the Competent Authority in this regard.

14. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and noted that PM_{2.5} and PM₁₀ are reported high. PP reported that the elevated PM₁₀ concentration observed during baseline monitoring is primarily attributed to nearby industrial activities, particularly clay mining and crushing operations. Additionally, the Kutch region is characterized by arid climatic conditions, which contribute to higher levels of suspended particulate matter. The project site is also located adjacent to a roadway, and frequent movement of transportation vehicles further adds to fugitive dust emissions, resulting in increased PM₁₀ levels. The EAC opined that PP shall undertake stringent measures to minimise the levels of PM₁₀ and PM_{2.5}.
15. It is reported that a total of 20 species listed under Schedule I of the Wildlife Protection Act, 1972 (amended in 2023) were identified including *Canis aureus*, *Equus hemionus*, *Felis chaus*, *Gazella bennettii*, *Hyaena hyaena*, *Hystrix indica*, *Urva edwardsii*, *Viverricula indica*, *Vulpes bengalensis*, *Accipiter badius*, *Gelochelidon nilotica*, *Haliastur indus*, *Pavo cristatus*, *Phoeniconaias minor*, *Platalea leucorodia*, *Ptyas mucosa*, *Python molurus*, *Naja naja*, *Saara hardwickii*, and *Varanus bengalensis*. The Wildlife Conservation Plan has been prepared and submitted to the Chief Conservator on 30.05.2025. A budget of INR 22.5 lakh has been earmarked for wildlife conservation over a period of five years. The EAC opined that the recommendations of the approved plan shall be strictly implemented in consultation with the State Forest Department.
16. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.
17. The PP has submitted that the green belt area of 19340 sqm. has been developed with 6044 no. of trees which is about 9.0 % of plot area and proposed green belt area is 23649 sqm. with 18250 no. of trees which is 11% of plot area. Thus, a total greenbelt area of 42989 sqm with 24294 no. of trees i.e. 20% of the plot area has been proposed. **The EAC deliberated on the greenbelt action plan and is of the opinion that greenbelt needs to be maintained as 25%, as the unit is classified as RED Category as per CPCB criteria.** Accordingly, 25% Grrenbelt shall be completed in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025.
18. The EAC deliberated on the certified compliance report of SPCB and found it satisfactory.
19. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
20. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.
21. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made

the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.

22. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
23. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

- 19.3.22 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal under the provisions of EIA Notification, 2006 for grant of Environment Clearance, **subject to uploading of written submission, on the PARIVESH portal**. The EAC categorically noted that the recommendation to grant EC is technical in nature under the provisions of the EIA Notification 2006, and subject to the fulfilment of commitments made by the PP to secure all the permissions/ approvals/ consents from Central/ State Authorities, as may be required. The recommendation does not create an obligation for authorities that handle issues related and relevant to construction and operation of the project under other independent procedures/ statutes, including the provisions stipulated in the Land Acquisition (R&R) Act, 2013. The specific and general conditions are mentioned below:

A. Specific Condition:

- i. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- ii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iii. The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iv. Shikara is at a distance of 1.01 km in West along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen

- green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
- v. Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
 - vi. There are ponds (0.8 km and 0.9 km in South) near the project area, Drain near Sikra (0.45 km, WNW), Pond near Project Area (0.71 km, ENE) along with other water bodies within the study area of the project site. Robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
 - vii. PP shall implement suitable environmental safeguards, to ensure that project activities do not adversely impact the Rann of Kutch Wildlife Sanctuary and its notified Eco-Sensitive Zone.
 - viii. Total water requirement (Industrial + Domestic) is 267 KLD which is obtained from GWIL (Gujarat Water Infrastructure Limited). Out of 267 KLD, 147 KLD is fresh water and remaining 120 KLD is treated water from ETP. PP shall secure necessary permission from the Competent Authority in this regard.
 - ix. PP shall undertake stringent measures to minimise the levels of PM₁₀ and PM_{2.5}.
 - x. Green Belt shall be developed and maintained in the project area in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
 - xi. The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at (<https://merilife.nic.in>).
 - xii. All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented. The action plan shall also cover activities related to (i) promotion of environmental education and awareness (including green skills), and (ii) sub-plan to address the vulnerable sections (*such as the elderly, children, pregnant women, persons with disabilities, and the terminally ill*). An institutional mechanism shall be developed for monitoring the implementation of the commitments made, which shall also manage and address public grievances. The progress of implementation of PH Action plan and grievance redressal shall be submitted regularly to the Regional Office of MoEF&CC.
 - xiii. The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village in consultation with the State Administration.
 - xiv. PP shall implement the skill development programs, in alignment with relevant Government initiatives/ programmes (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected

outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC.

- xv. PP shall Install CO sensors with alarms at strategic locations in the Plant.
- xvi. PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.
- xvii. PP shall establish a dedicated in-house Research & Development (R&D) cell aimed at identifying, evaluating, and implementing emerging clean technologies. The focus of this cell will be on enhancing process efficiency, minimizing waste generation, and promoting circular economy practices within the plant operations. The effectiveness of the R&D initiatives shall be reviewed periodically, and outcomes contributing to sustainability shall be documented and reported
- xviii. The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded, compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.
- xix. The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

B. General Conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
- ii. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area.
- iii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- ix. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
- x. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xi. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
- xii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
- xiii. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
- xiv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
- xv. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
- xvi. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
- xvii. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- iv. Water meters shall be provided at the inlet to all unit processes in the plants.
- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
- vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- ix. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.

IV. Noise monitoring and prevention

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.
- iii. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees

(PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <https://cpcb.nic.in/technical-guidelines-3/>. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.

- iv. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
- ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined

system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- viii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
- xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on

the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.

- xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xvii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Agenda No. 19.4

- 19.4 Brownfield project in which addition of SAF (3.5 MVA x 2 nos.) to produce Ferro Alloys (SiMn) 11,000 TPA and/or FeMn 17,000 TPA and/or FeSi 7,000 TPA and/or Pig Iron 27,000 TPA in place of existing Cast Iron 29,700 TPA and change in fuel of existing Captive Power Plant 7.5 MW (Coal and Dolochar fuel proposed instead of existing Biomass) by M/s. Agrawal Structure Mills Pvt. Ltd., located at Village - Thakurtola, Tehsil & District – Rajnandgaon, Chhattisgarh- Consideration of EC.**

[Proposal no.: IA/CG/IND1/556562/2025: File No. IA-J-11011/26/2025-IA.II (Ind-I)]

[Consultant: Anacon Laboratories Pvt. Ltd; Valid upto: 29.09.2026]

- 19.4.1 M/s. Agrawal Structure Mills Private Limited made an online application vide proposal no.: IA/CG/IND1/556562/2025 dated 20.12.2025 along with copy of EIA report and Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a) Metallurgical industries (ferrous and non-ferrous) and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.
- 19.4.2 Name of the EIA consultant: M/s. Anacon Laboratories Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/23-26/RA 0304_Rev.01; valid upto 29.09.2026].

Details submitted by Project proponent

- 19.4.3 The detail of the ToR is furnished as below:

Date of application	Consideration	Details	Date of accord	ToR Validity
14.01.2025	Standard ToR issued	Terms of Reference	19.01.2025	18.01.2029

- 19.4.4 The proposed brownfield project M/s. Agrawal Structure Mills Private Limited. Located in Village - Thakurtola, Tahsil and District- Rajnandgaon Chhattisgarh is for expansion/modification project through change in production facilities in which addition of SAF (3.5 MVA x 2 nos.) to produce Ferro Alloys (SiMn) 11,000 TPA and/or FeMn 17,000 TPA and/or FeSi 7,000 TPA and/or Pig Iron 27,000 TPA in place of existing Cast Iron 29,700 TPA and change in fuel of existing Captive Power Plant 7.5 MW (Coal and Dolochar fuel proposed instead of existing Biomass).

- 19.4.5 Details EDS:

Sl.	Details of EDS Sought by Ministry	Reply by M/s. Agrawal Structure Mills Pvt. Ltd.
EDS generated for our Proposal No. IA/CG/IND1/556562/2025 on dated 10.11.2025 and Reply submitted on Dated: 20.12.2025		
1	EDS Point 1: The proposal was examined, and it is noted that the uploaded CCR do not mention the compliance of CTO conditions in respect of the Bio-mass based power plant and the Cast Iron Plant. PP may upload a CCR in compliance with OM dated 08-06-2022.	Reply: The company has obtained the revised CCR from Chhattisgarh Environment Conservation Board (CECB), wherein compliance status of all applicable CTO conditions pertaining to the Biomass-based Power Plant and the CTE conditions of Cast Iron Plant has been duly incorporated. The copy submitted. This is submitted for information and record.

- 19.4.6 Environmental Site Settings:

Sl.	Particulars	Details	Remarks
1.	Total land	Total land – 5.280 Ha.	The land use of entire area is industrial. No additional land proposed to be acquired.
2.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	The total project area for expansion project will be 5.280 Ha. covering Khasra Nos. 376, 377/1, 377/2, 383/1, 384, 385/2, and 385/3.	The land is already in possession, designated for industrial use, and no additional land is required.
3.	Existence of habitation & involvement	Thakurtola - 0.62 km/NNE & Torankata - 0.84 km/SSW	R&R - Not applicable.

Sl.	Particulars	Details			Remarks
	of R&R, if any.	The proposed expansion project does not necessitate any Resettlement and Rehabilitation (R&R) measures.			
4.	Latitude and Longitude of all corners of the project site.	S. No.	Latitude	Longitude	Village- Thakurtola, Tahsil and District- Rajnandgaon (Chhattisgarh)
		BP1	21° 6'26.93"N	81° 6'41.48"E	
		BP2	21° 6'26.59"N	81° 6'55.99"E	
		BP3	21° 6'25.04"N	81° 6'55.44"E	
		BP4	21° 6'25.42"N	81° 6'50.48"E	
		BP5	21° 6'20.19"N	81° 6'49.27"E	
		BP6	21° 6'23.06"N	81° 6'43.84"E	
		BP7	21° 6'23.95"N	81° 6'39.27"E	
5.	Elevation of the project site	Min 315m – Max 323m above mean sea level.			Project site and its terrain consist of flat to moderately steep slopes.
6.	Involvement of Forest land if any.	No forest land is involved in the project area.			No forest land is involved in the project area.
7.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	Project Site: NA Study area: River, Lake, Pond, Nala			No natural water body is involved in the proposed plant site.
		Name of Water Body	Distance (KM)	Direction	
		Seasonal Nala	0.01	S	
		Parri Nadi	1.67	SW	
		Kharkhara Nadi	4.82	SE	
		Shivnath River	1.87	SE	
		Shivnath Canal	1.33	SSE	
		Right Bank Canal	6.75	SE	
		Left Bank Canal	4.46	SE	
		Joratarai Lake	5.95	NW	
		Moti Talab	8.27	WSW	
		Rani Sagar Lake	8.58	WSW	
		Budha Sagar	8.48	WSW	
		Bada Talab	7.68	W	
8.	Existence of ESZ/ESA / national park/ wildlife sanctuary/ biosphere reserve/tiger reserve/ elephant reserve etc.	Study area			No ESZ/ESA/national park/wildlife sanctuary /biosphere reserve/ tiger reserve/ elephant reserve etc. present in 10 km radius area.
		Name of the ESZ/ESA: Nil			
		Status of Notification: Nil			
		Distance of project from ESZ/ESA: Nil.			
		Authenticated map of ESZ projecting distance of ESZ from project site: Not applicable since no ESZ in study area Status of NBWL approval: Not applicable			

Sl.	Particulars	Details	Remarks
	if any within the study area	List of Reserved and protected forests: Nil	

19.4.7 Consent to Establish & Operate for the existing unit was accorded by Chhattisgarh Environment Conservation Board vide Ir. No. 137/RO/TS/CECB/2023 dated 25/04/2023 in the name of M/s. SKA Power & Cast Alloys Pvt. Ltd. Subsequently, M/s. Agrawal Structure Mills Pvt. Ltd. acquired this existing plant. The existing project capacity did not required EC as per EIA Notification, 2006 and amendments thereof. Consent to Operate for the Biomass Based Power Plant – unit was accorded by Chhattisgarh Environment Conservation Board vide Ir. No. Vide letter no. 4740/TS/CECB/ 2023 dated 13/09/2023 in the name of M/s. Agrawal Structure Mills Private Limited acquired this existing plant. The validity of CTO is up to 30.04.2024.

19.4.8 Implementation status of the existing CTE/CTO:

Sr. No.	Particulars	Granted To	Document No.	Date	Validity	Implementation Status
1	Cast Iron - 29,700 TPA (CTE cum CTO)	M/s SKA Power and Cast Alloys Pvt. Ltd.	Vide letter no. 137/RO/TS/CECB/2023	25/04/2023	One year from the first date of month of commissioning of the plant	Constructed but not operated yet
2	Biomass Based Power Plant – (7.5 MW)	M/s Agrawal Structure Mills Private Limited	Vide letter no. 4740 /TS/CECB/ 2023	13/09/2023	30/04/2024	Presently the unit is non- operational. Intimation already given to CECB.

Note:** As per Letter received from Regional Office, CECB, Bhilai vide letter number No. 5520/Kshetra Karya/CGPSM/Bhilai/2024 dtd. 03/01/2025 name changes from M/s. SKA Power & Cast Alloys Private Limited to M/s. Agrawal Structure Mills Private Limited.

19.4.9 The unit configuration and capacity of existing and proposed project is given as below:

Sr. No.	Process plant	Existing Capacity	Proposed configuration of the plant	Product Name	Capacity (in TPA)
1.	Submerged Electric Arc Furnace	(Cast Iron - 29,700 TPA)	Electrically operated Sub-Merged Arc Furnace 3.5 MVA x 2 Nos.	Ferro Alloys (SiMn)	11,000
				And/or	
				Ferro Alloys (FeMn)	17,000
				And/or	
				Ferro Alloys (FeSi)	7,000
				And/or	
				Pig Iron	21,000

Sr. No.	Process plant	Existing Capacity	Proposed configuration of the plant	Product Name	Capacity (in TPA)
2.	Captive Power Plant (Boiler and TG based)	Biomass Based Power Plant (7.5 MW)	Captive power 7.5 MW (32 TPH Boiler)	Coal + Dolomitic Based Power Plant	Coal + Dolomitic Based Power Plant (7.5 MW)

19.4.10 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

For Ferro Alloys Plant (SiMn, FeMn, FeSi)

(a) For Silico Manganese (SAF Plant)

S. No.	Raw Material	Consumption (in TPA)	Source	Distance (In KM)	Mode of Transportation
1	Manganese Ore	18,600	Mines at Odisha and Madhya Pradesh and Vidarbha region	~ 500 Kms.	By Rail & Road (through covered trucks)
2	FeMn Slag	11,570	In house generation	---	---
3	LAM Coke	6,200	Open Market	~ 500 Kms.	By Road (through covered trucks)
4	Dolomite	2,820	Mines in Bilaspur	~ 300 Kms.	By Road (through covered trucks)
5	Electrode paste	240	Local Market	~ 100 Kms.	By Road (through covered trucks)
6	Quartz	3,000	Mines in Raigarh	~ 300 Kms.	By Road (through covered trucks)
7	Bag filter dust	76	Own generation	---	---

(b) For Ferro Manganese (SAF Plant)

S. No.	Raw Material	Consumption (in TPA)	Source	Distance	Mode of Transportation
1.	Manganese Ore	50340	Mines at Orissa and Madhya Pradesh and Vidarbha region	~ 500 Kms	By Rail & Road (through covered trucks)
2.	Coal & Coke	13500	Open Market	~ 500 Kms	By Road (through covered trucks)
3.	Dolomite	4500	Mines in Bilaspur	~ 300 Kms	
4.	Carbon Paste	540	Local Market	~ 100 Kms	
5.	Iron	1800	NMDC Iron Ore Mines	~ 500 Kms	

(c) For Ferro Silicon (SAF Plant)

S. No.	Raw Material	Consumption (in TPA)	Source	Mode of Transportation
1.	Quartz	10200	Mines in Raigarh	By Rail & Road (through covered trucks)
2.	Coke/Charcoal	672	Open Market	
3.	MS Scrap/Mill Scale	2640	Local Industries	
4.	Electrode Paste	360	Local Market	

(d) For Pig Iron (SAF Plant)

S. No.	Raw Material	Consumption (in TPA)	Source	Distance	Mode of Transportation
1	Iron Ore	22800	NMDC Iron Ore Mines	500 KMs	By Rail & Road (through covered trucks)
2	Mill Scale	9690	Chhattisgarh	~ 200 Kms.	By road (through covered trucks)
3	Iron Ore Fines	9500	NMDC Iron Ore Mines	~ 500 Kms.	By road (through covered trucks)
4	Quartz	5700	Mines in Raigarh	~ 300 Kms.	By Rail & Road (through covered trucks)
5	Dolomite/Limestone	6650	Mines in Bilaspur	~ 300 Kms.	By road (through covered trucks)
6	Coke/Coal/Charcoal	34520	Open Market	~ 500 Kms.	By road (through covered trucks)
7	Electrode Paste	1280	Local Market	~ 100 Kms.	By road (through covered trucks)

For Captive Power Plant (FBC) – 7.5 MW

S. No.	Raw Material	Consumption (in TPA)	Source	Distance	Mode of Transportation
1.	Indian Coal (80%)	62,700 TPA	Chhattisgarh	~ 300 Kms.	Internally available.
2.	Dolochar (20%)	15,840 TPA	Chhattisgarh	~ 100 Kms.	By Road through covered vehicles

- 19.4.11 The water requirement (existing 90 KLD + proposed expansion of 181 KLD) will be 271 KLD, out of which 10 KLD required for domestic purpose. 264 KLD of fresh water requirement will be obtained from the CSIDCL supply water and the remaining recycled water will be 7 KLD.

19.4.12 Total Power requirement is 7.5 MW (7.0 MW for Ferro alloys + 0.5 MW for power plant – FBC). Power will be met through CPP (80% Coal + 20% Dolochar Based).

19.4.13 Baseline Environmental Studies:

Period	Winter Season (1 st December 2024 to 28 th February 2025)					
AAQ parameters at 8 Locations (min. and max)	$PM_{10} = 57.4 - 88.8 \mu g/m^3$; $PM_{2.5} = 18.3 - 37.6 \mu g/m^3$ $SO_2 = 7.7 - 20.1 \mu g/m^3$; $NO_2 = 13.7 - 28.5 \mu g/m^3$ $CO = 257 - 693 \mu g/m^3$					
Incremental GLC level	$PM_{10} = 2.75 \mu g/m^3$ (Level at 1000 m in West Direction) $PM_{2.5} = 1.12 \mu g/m^3$ (Level at 1000 m in West Direction) $SO_2 = 7.18 \mu g/m^3$ (Level at 1000 m in West Direction) $NO_x = 7.18 \mu g/m^3$ (Level at 1000 m in West Direction)					
Ground water quality at 8 locations	pH: 7.04 to 8.2 TDS: 285 to 351 mg/l. Nitrate: 5.09 to 8.62 mg/l Iron: 0.13 to 0.66 mg/l Fluoride: 0.3 to 0.75 mg/l. Total hardness: 118.35 to 174 mg/l. Chloride: 63.46 to 112.16 mg/l Sulphate: 19.4 to 51.86 mg/l Heavy metals: BDL					
Surface water quality at 5 locations	pH: 7.56 – 8.12 Sulphate: 27.44 – 39.32 mg/l. PO ₄ : 0.21 to 0.31 mg/l. BOD: 2.31 – 3.12 mg/l. Total hardness: 147.67 – 188.86 mg/l. as CaCO ₃ Chloride: 71.28 – 104.25 mg/l DO: 5.8 – 6.2 mg/l. COD: 11.72 – 17.95 mg/l TDS: 301 – 368 mg/l.					
Noise levels at 8 locations. Leq. (Day and Night)	Noise levels at every station were within CPCB standards. <ul style="list-style-type: none"> Residential Area – 51.6 to 53.1 dBA for daytime and 41.8 to 43.7 dBA for nighttime. Commercial Area – 54.9 to 56.1 dBA for daytime and 44.5 to 45.6 dBA for night time. Silence Zone – 43.7 to 45.2 dBA for daytime and 35.4 to 36.8 dBA for nighttime. Industrial Area – 58.7 dBA for daytime and 49.2 dBA for nighttime. 					
Traffic assessment study findings	<ul style="list-style-type: none"> Traffic study has been conducted at Approach Road and NH-53 which is approximately 1 km in north direction from the site. Transportation of raw materials, fuel & furnished product will be done by road and Bulk Material by the rail. Existing PCU is 234 PCU/day on Approach Road and 20016 PCU/day on NH-53 which is approximately 1 km in north direction from the site. Existing level of service (LOS) for the approach road and NH-53 is: A & C respectively. 					
	Road	Existing PCU's- State/ National Highway	V (Volume In PCU / Day)	C (Capacity In PCU / Day)	Existing V/C Ratio	LOS
	Approach Road	234	234	6000	0.0390	A
	NH-53	20016	20016	35000	0.5719	C

	<ul style="list-style-type: none">PCU load after proposed project will be 234 (Existing) + 422 (Additional) = 656 PCU/day on approach Road and 20016 (Existing) + 422 (Additional) = 20438 PCU/day on NH-53 which is approximately 1 km in north direction from the site and level of service (LOS) approach road and NH-53 is: A & C respectively.					
	Road	Increased PCU's- State/ National Highway	V (Volume In PCU/ Day)	C (Capacity In PCU/ Day)	Modified V/C Ratio	LOS
	Approach Road-	234 + 422 = 656	656	6000	0.1093	A
	NH-53	20016 + 422 = 20438	20438	35000	0.5839	C
	*Note: Capacity as per IRC: 64-1990) <i>Guide line for capacity for roads.</i> Conclusion: It is observed that, considering the trucks used for raw material and finished products transportation from approach road and NH-53 Road, the level of service on will be A (0.0 to 0.2) and C (0.4 -0.6), respectively.					
Flora and fauna	Flora According to IUCN Status report 2024-2 out of total 109 plant species identified within study area among the observed species <i>Tectona grandis</i> Linn. is endangered (EN) while <i>Aegle marmelos</i> (L.) Corrêa is near threatened (NT) as per IUCN RED list. The other identified plant species in the study area belongs to least concern (LC), data deficient (DD) and not evaluated (NE), as per IUCN status report 2024-2.					
	Fauna Among the reported animals, the categorization of species as per IUCN is as follows: Mammals: 9 species are observed in the study area which are Least Concern as per IUCN. Reptiles: <i>Python molurus</i> – Indian Python (Near Threatened), <i>Varanus bengalensis</i> - Bengal Monitor Lizard (Near Threatened) Avifauna: All species are Least Concern as per IUCN. Wildlife protection (Amendment) Act 2022 and as amended. Among mammals: Jackal (<i>Canis aureus</i>), Indian fox (<i>Vulpes bengalensis</i>), Indian Wild boar (<i>Sus scrofa cristatus</i>), Common Mongoose (<i>Herpestes edwardsi</i>), are protected in Schedule-I. whereas, Common Langur (<i>Semnopithecus entellus</i>), protected in Schedule-II, While Palm squirrel (<i>Funambulus pinnati</i>), and Black-naped hare (<i>Lepus nigricollis</i>) does not given protection under Schedules of Wild Life Protection Amendment Act 2022. Among the Herpetofauna: Bengal Monitor Lizard (<i>Varanus bengalensis</i>), Indian Cobra (<i>Naja naja</i>), Indian Python (<i>Python molurus</i>) and Common Rat Snake (<i>Ptyas mucosa</i>) were provided protection as per Schedule-I; While Common Indian Krait (<i>Bungarus caeruleus</i>), Indian Toad (<i>Bufo parietalis</i>) were provided as per Schedule – II of Wildlife protection (Amendment) Act 2022 and as amended.					

	<p>Among the Avifauna: All of the Avifauna were observed in the study area included in Schedule-II as per wildlife protection (Amendment) Act 2022.</p> <p>A Wildlife Conservation and Management Plan is prepared and provided is submitted at PCCF(WL), Raipur office on dt. 15.10.2025.</p> <p>Present Status: The WLCP submitted at PCCF(WL), Raipur office on dt. 15.10.2025 .The approval of conservation plan is under process.</p>
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19.4.14 The details of solid waste generation along with its mode of treatment/disposal is furnished as below:

Solid Waste Generation

S. No.	Waste / By product	Quantity(TPA)	Proposed method of disposal
1.	Slag from SiMn	11000	Will be utilized in road construction
2.	Slag from FeMn	14380	Will be used in manufacture of Silico manganese as it contains high MnO ₂ .
3.	Slag from FeSi	750	will be given to cast iron foundries
4.	Slag from Pig Iron	24700	Used for filling of low-lying area/land filling/ construction purpose/ sell to Cement plant.
5.	Bag Filter dust	360	Used in SiMn production (SAF) / Sent to Cement plants
6.	Fly Ash/Bottom ash	40080	Sold out to bricks manufactures
7.	Bed Material	800	Used for filling of low-lying area/land filling/ construction purpose/ sell to Cement plant

Hazardous Waste Generation

Type of Hazardous Waste	H.W Category /Rule	Quantity	Disposal
Used/Spent Oil	5.1(as per HWM Schedule I)	1.3 KLA	Will be given to authorized recycler
Empty Barrels/ Containers/ liners contaminated with hazardous chemicals/ wastes	Covered under The Batteries (Management and Handling) Rules, 2001	7 Nos. (0.1 TPA)	Total 0.1 TPA the lead acid battery or dry battery will be given to authorized recycler having authorization from competent Authority.
E-waste generation	E-waste Management rule 2022	0.3 TPA Computers, laptops, Monitors, printers, and other electronic appliances	Total 0.3 TPA Shall be disposed through authorized recyclers as per e-waste Management rule 2022

19.4.15 Public Consultation:

Details of advertisement given	<p>Advertisement regarding Public hearing Schedule dated 08.08.2025</p> <ul style="list-style-type: none"> The Indian Express New Delhi - Date- 02.07.2025 Dainik bhaskar - Date - 02.07.2025
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Date of public consultation	08.08.2025 at 11:00 AM
Venue	Venue – at vacant land of Proposed Project Site, Khasra No. 385/2, and 385/3 Village - Thakurtola, Tehsil & District – Rajnandgaon, Chhattisgarh.
Presiding Officer	Additional Collector, District Rajnangaon
Major issues raised	<ul style="list-style-type: none"> Road should be repaired Crops should not be damaged due to pollution. Industrial training program. Encroachment of the Govt. Nala. Concern about pollution. Waste water will not be generated from the company and Zero liquid discharge will be followed. Waste water should not be discharge out of Plant Premises. Employment should be provided to local villagers according to their qualifications. All environmental policies and regulations must be strictly followed by the company Scarcity of Drinking water. Copy of action plan of CER Budget will be provided in nearby village panchayats <p>All suggestions/observation/objections raised by locals during PH are point wise complied and provided in EIA report.</p>

Action Plan as per OM dated 30.09.2020

S. No	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			Rs. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2026 to 31.12.2026)	(01.01.2027 to 31.12.2027)	(01.01.2028 to 31.01.2028)	
1.	Health & Awareness Camps.	Location: Thakurtola and nearby villages. Activity: Health camps, workshops, awareness programs.	Organize a minimum of 3 health camps annually	Organize a minimum of 3 health camps annually	Organize a minimum of 3 health camps annually	12
2.	Rural infrastructure , such as the repair of village roads.	Work: Contribution in Repairing of Thakurtola village road (Patchwork) approx. 0.5 KM		We will start work from January, 2027 and Completion of work by December, 2027.		10
3.	Industrial Training program for	Location: Thakurtola and nearby villages.	Work start from	yearly	yearly	6

S. No.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			Rs. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2026 to 31.12.2026)	(01.01.2027 to 31.12.2027)	(01.01.2028 to 31.01.2028)	
	unemployment villagers.		January 2026			
4.	Basic Facilities in primary school Thakurtola and nearby area like Solar Streetlight, Electrification and installing Submersible pump in boring, Water cooler, CCTV Camera, Plantation in school premises and near Primary School Thakurtola.	Location: Primary school Thakurtola and nearby area. Work: 1. Solar Street Light in school and Infront of Thakurtola Primary School. 3. Installing Submersible Pump at Thakurtola Primary School Boring. 4. Water Cooler in Thakurtola Primary School. 5. CCTV camera in School. 6. Plantation in school Premises.		We will Start Work at Thakurtola School and nearby area from January, 2027 and will complete within 1 Year		12
5.	Rural Infrastructure like CCTV Camera, Provision of Solar street light and installing Submersible pump in boring Thakurtola village and required places.	Location: Thakurtola Village (Each Chowk) Work: 1. CCTV Camera 2. Solar Street Light 3. Electrification 4. Installing Submersible Pump.		We will Start Work in Thakurtola village from March, 2027 and will complete within 1 Year		16
6.	Rainwater Harvesting system.	Location & Work: Rainwater Harvesting structure in Nearby villages		We will Start Work in nearby villages from		8

S. No.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			Rs. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2026 to 31.12.2026)	(01.01.2027 to 31.12.2027)	(01.01.2028 to 31.01.2028)	
				January, 2027 and will complete within 1 Year		
7.	Help to social welfare program.	Location: Nearby villages Activity: We Will Provide donation and grants for the social welfare program	Yearly	Yearly	Yearly	6
8.	Plantation in Government Land & Private Land in Thakurtola, and nearby villages.	Location: Thakurtola and Nearby villages Provided by Local Authority/ Panchayat & any Public if agree. Land Size: Approx. 0.2 Acre (as per availability) Facilities: Appointment of Experience Person for Plantation in flat land and Red yellow and black soil areas provided by Local forest authority. Activity: Monthly Checking of Planted trees and fencing availability by Experienced Person through Plant management.	We will start the work immediately after starting the construction work at site which is likely to start from June 2026.	We will maintain a minimum survival rate of 80% for the plantation.	Work will be completed at Thakurtola and Nearby villages by August, 2028	20
9.	Farmers Training to improve crop productivity	Location: Village Thakurtola at Community Land Provided by Village Panchayat /Local Authority. Facilities:		We will Start the Work from August, 2027	The completion of Work by June, 2028	10

S. No.	Physical activity and action plan		Target of Implementation of Action Plan (Timeline)			Rs. (In Lakhs)
			1 st Year	2 nd Year	3 rd Year	
	Name of the Activity	Places	(01.01.2026 to 31.12.2026)	(01.01.2027 to 31.12.2027)	(01.01.2028 to 31.01.2028)	
		Agriculture and Horticulture Expert 1 Person from Local village. A Rapid Soil testing facility /kit will be provided along with beneficial Books on Crop Agronomy and Horticulture and Dairy etc. in Hindi. Activity: Half Yearly Soil Sampling and analysis and awareness to farmers for better selection of crops. Training for efficient crop management. Awareness for "Jaivik and Sustainable Agriculture"				
Grand total CER Expenses:						100
(Rs. One hundred Lakhs only)						Lakhs

- 19.4.16 Existing capital cost of project was Rs. 323 Lakhs. The Capital cost of the proposed project is Rs. 636 Lakhs and the Capital cost for environmental protection measures is proposed as Rs. 212 Lakhs. The annual recurring cost towards environmental protection measures is proposed as Rs. 14 Lakhs. The employment generation from the proposed brownfield project is 200 (34 Administrative Staff + 166 Production Staff). The details of cost for environmental protection measures are as follows:

Sl.	Particulars	Qty. in Nos.	Existing	Proposed addition	Total cost after expansion	Operation & Maintenance cost
Plant and Machinery proposed for EMP						
1	ESP cost of Power Plant	1	30		30	0.4
2	Cost of Bag Filters	1	-	20	20	0.26
Building and Civil works used for EMP						
3	Cost of Chimney for Power Plant	1	8		8	0.2
4	Cost of Chimney for Ferro Alloys	1		6	6	0.15

Sl.	Particulars	Qty. in Nos.	Existing	Proposed addition	Total cost after expansion	Operation & Maintenance cost
5	Oil Trap in the drains system	1	-	1	1	0.05
6	Silt Arrestation Pit in Storm Water Drains	1	-	2	2	0.1
7	Internal Road Black topping and other construction works for Paving the Floors			8	8	0.3
8	Drainage system		3	3	6	0.2
Exclusive cost of works used for EMP						
9	Cost of Septic Tank and Soak pit for Domestic Waste Water Wherein STP proposed on expansion project	1	1	7	8	0.15
10	Green Belt Plantation along with Irrigation System and Pipe Line		4	13	17	0.4
12	Fugitive dust Control Spray system in Plant	2		2	2	0.1
13	Movable Vacuum cleaning system	1		1	1	0.03
14	Wheel Washing System in Security area	1		2	2	0.05
15	On Line stack Monitoring for stacked attached to CPP and Ferro Alloys	2		3	3	0.08
16	On Line AAQ monitoring station			20	20	0.5
19	On Line Effluent Quality Monitoring System (EQMS)			4	4	0.1
21	Rain Water Harvesting and Recharge system with Roof Harvesting and Rain Water Collection Tank	-	-	3	3	0.13
22	Noise Reduction enclosure/ anti vibration pad etc.			1	1	
23	Environmental monitoring	-	-	5	5	8
24	Occupational Health and Safety	-	-	5	5	0.8
25	CER works for improvement of surrounding Environment	-	-	50	50	-

Sl.	Particulars	Qty. in Nos.	Existing	Proposed addition	Total cost after expansion	Operation & Maintenance cost
27	Biological Conservation Plan	-	-	10	10	2
	Total Expenses in Lakhs Rs.		46	166	212	14

19.4.17 The existing plantation as on date is 500 nos. Proposed greenbelt will be developed in 1.74 ha area which is about 33% of the total project area. A 20 m wide greenbelt consisting of at least 3 Tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoE&CC, New Delhi guidelines. Local and Native Species with a density of 2500 trees per hectare. The total plantation about 4350 Trees (considering 2500 nos./Ha) will be planted in coming Monsoon (after receipt the EC) whereas survival rate shall be maintained in subsequent years.

19.4.18 It is reported that there is no violation under EIA, 2006/court case/show cause/direction related to the project under consideration.

Certified compliance report from Regional Office

19.4.19 The company has obtained the CCR from Chhattisgarh Environment Conservation Board (CECB) from RO, Bhilai, CG by vide F.No.: 4481/Kshetra.Karya/CGPSM/Bhilai/2025 dated 12.12.2025. As per the report, all stipulated conditions have been complied with.

Written submission by the PP:

19.4.20 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 09.01.2026 through email dated 09.01.2026 submitted the following information:

Sl.	Observations by Hon'ble EAC (Ind. – I), MoEFCC, New Delhi	Reply by M/s. Agrawal Structure Mills Pvt. Ltd.
1.	PP shall submit revised CER budget.	As per the recommendations of the Committee, we hereby enclose the revised Corporate Environment Responsibility (CER) budget of Rs. 1.00 Crore in place of the earlier proposed budget of Rs. 0.50 Crore . The detailed break-up is submitted and updated at relevant para above.
2.	PP shall submit NOC from the concerned department for the seasonal nala being it located adjacent to the project site.	The application will be submitted soon to the Chief Engineer, Water Resources Department, Rajnandgaon, Chhattisgarh for issuance of NOC in respect of the seasonal nala located adjacent to the project site. The NOC shall be submitted to the Hon'ble Committee immediately upon receipt.
3.	PP shall revise the pig iron capacity.	As per the recommendations of the EAC, the Pig Iron production capacity has been re-assessed based on the actual operating schedule and realistic production planning. Considering an average monthly production of approximately 1,800 tonnes and maximum 350 operating days per year , the annual Pig Iron production works out to 21,000 TPA .

Sl.	Observations by Hob'le EAC (Ind. – I), MoEFCC, New Delhi	Reply by M/s. Agrawal Structure Mills Pvt. Ltd.
		<p>Accordingly, PP hereby request that, the proposed Pig Iron capacity revised to 21,000 TPA in place of the earlier proposed 27,000 TPA. This revision is based on realistic operational parameters and does not result in any increase in pollution load or environmental impact.</p> <p>The same is updated at relevant para above.</p>

Deliberations by the Committee

19.4.21 The Committee noted the following:

1. The instant proposal is for expansion/modification project through change in production facilities in which addition of SAF (3.5 MVA x 2 nos.) to produce Ferro Alloys (SiMn) 11,000 TPA and/or FeMn 17,000 TPA and/or FeSi 7,000 TPA and/or Pig Iron 27,000 TPA in place of existing Cast Iron 29,700 TPA and change in fuel of existing Captive Power Plant 7.5 MW (Coal and Dolochar fuel proposed instead of existing Biomass).
2. Consent to Establish & Operate for the existing unit was accorded by Chhattisgarh Environment Conservation Board vide Ir. No. 137/RO/TS/CECB/2023 dated 25/04/2023 in the name of M/s. SKA Power & Cast Alloys Pvt. Ltd. Subsequently, M/s. Agrawal Structure Mills Pvt. Ltd. acquired this existing plant. The existing project capacity did not required EC as per EIA Notification, 2006 and amendments thereof. Consent to Operate for the Biomass Based Power Plant – unit was accorded by Chhattisgarh Environment Conservation Board vide Ir. No. Vide letter no. 4740/TS/CECB/ 2023 dated 13/09/2023 in the name of M/s. Agrawal Structure Mills Private Limited acquired this existing plant. The validity of CTO is up to 30.04.2024.
3. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
4. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
5. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

6. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
7. The Committee noted that the project is an expansion proposal. Accordingly, it reviewed the mitigation measures proposed by the PP w.r.t. the proposed site and nearby sensitive receptors, and found the same as adequate. The EAC also reviewed the compliance statement submitted by the project proponent regarding aspects such as land acquisition status / presence of streams or nallahs within the site / validity of baseline data / validity of the Certified Compliance Report / validity of the Public Hearing (PH), among other relevant factors. Upon examination, the Committee found the submission satisfactory for further appraisal of the proposal.
8. PP submitted that total land is 5.280 Ha. The land is already in possession, designated for industrial use, and no additional land is required for the expansion.
9. Thakurtola - 0.62 km/NNE & Torankata - 0.84 km/SSW exists along with other sensitive areas within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
10. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
11. Seasonal Nala is at 0.01 km in South along with other water bodies within the study area of the project site. The EAC opined that robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented. The EAC noted that PP was required to submit a NOC for the adjacent Nallah, however, PP submitted that application has been made for the same. **The Committee noted that submission of the requisite NOC in respect of the adjacent nala is required.**
12. The water requirement (existing 90 KLD + proposed expansion of 181 KLD) will be 271 KLD, out of which 10 KLD required for domestic purpose. 264 KLD of fresh water requirement will be obtained from the CSIDCL supply water and the remaining recycled water will be 7 KLD. The EAC recommended that the PP secure the required approval from the appropriate authority.
13. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and found it satisfactory.
14. The Committee also deliberated on the public hearing issues and the revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.

15. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.
16. It is reported that Schedule-I species recorded in the study area include Jackal (*Canis aureus*), Indian Fox (*Vulpes bengalensis*), Indian Wild Boar (*Sus scrofa cristatus*), Common Mongoose (*Herpestes edwardsi*), Bengal Monitor Lizard (*Varanus bengalensis*), Indian Cobra (*Naja naja*), Indian Python (*Python molurus*) and Common Rat Snake (*Ptyas mucosa*), as per the Wildlife (Protection) Amendment Act, 2022. In view of the same, a Wildlife Conservation and Management Plan has been prepared and submitted to the PCCF (Wildlife), Raipur on 15.10.2025, and the approval of the said plan is under process. The EAC opined that the recommendations of the approved plan shall be strictly implemented in consultation with the State Forest Department.
17. PP reported that the existing plantation as on date is 500 nos. Proposed greenbelt will be developed in 1.74 ha area which is about 33% of the total project area. The total plantation about 4350 Trees (considering 2500 nos./Ha) will be planted in coming Monsoon (after receipt the EC) whereas survival rate shall be maintained in subsequent years. The EAC deliberated on the greenbelt action plan and is of the opinion that greenbelt shall be completed in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025.
18. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
19. The Committee deliberated on the certified compliance report of Regional office and found it satisfactory.
20. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
21. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
22. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through

reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

19.4.22 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal under the provisions of EIA Notification, 2006 for grant of Environment Clearance **subject to uploading of the written submissions, and the requisite NOC from the competent authority with respect to the adjacent nala, on the PARIVESH portal**. The EAC categorically noted that the recommendation to grant EC is technical in nature under the provisions of the EIA Notification 2006, and subject to the fulfilment of commitments made by the PP to secure all the permissions/ approvals/ consents from Central/ State Authorities, as may be required. The recommendation does not create an obligation for authorities that handle issues related and relevant to construction and operation of the project under other independent procedures/ statutes, including the provisions stipulated in the Land Acquisition (R&R) Act, 2013. The specific and general conditions are mentioned below:

A. Specific Condition:

- i. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- ii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iii. The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iv. Thakurtola - 0.62 km/NNE & Torankata - 0.84 km/SSW exists along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
- v. Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
- vi. Seasonal Nala is at 0.01 km in South along with other water bodies within the study area of the project site. Robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- vii. The water requirement (existing 90 KLD + proposed expansion of 181 KLD) will be 271 KLD, out of which 10 KLD required for domestic purpose. 264 KLD of fresh water requirement will

- be obtained from the CSIDCL supply water and the remaining recycled water will be 7 KLD. PP shall secure the required approval from the appropriate authority.
- viii. Green Belt shall be developed and maintained in the project area in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- ix. The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at (<https://merilife.nic.in>)
- x. All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented, which is amounting to Rs. 1.0 Crore. The action plan shall also cover activities related to (i) promotion of environmental education and awareness (including green skills), and (ii) sub-plan to address the vulnerable sections (*such as the elderly, children, pregnant women, persons with disabilities, and the terminally ill*). An institutional mechanism shall be developed for monitoring the implementation of the commitments made, which shall also manage and address public grievances. The progress of implementation of PH Action plan and grievance redressal shall be submitted regularly to the Regional Office of MoEF&CC.
- xi. PP shall implement the skill development programs, in alignment with relevant Government initiatives/ programmes (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC.
- xii. PP shall Install CO sensors with alarms at strategic locations in the Plant.
- xiii. PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.
- xiv. PP shall establish a dedicated in-house Research & Development (R&D) cell aimed at identifying, evaluating, and implementing emerging clean technologies. The focus of this cell will be on enhancing process efficiency, minimizing waste generation, and promoting circular economy practices within the plant operations. The effectiveness of the R&D initiatives shall be reviewed periodically, and outcomes contributing to sustainability shall be documented and reported
- xv. The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded,

compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.

- xvi. The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

B. General Conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
- ii. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area.
- iii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.

- ix. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.
- x. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
- xi. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
- xiii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
- xiv. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
- xv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
- xvi. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
- xvii. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
- xviii. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- xix. Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
- xx. The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
- xxi. The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
- xxii. Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants.
- xxiii. No Ferro-chrome production shall be carried out without prior Environmental clearance from MOEF&CC.
- xxiv. During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.

- xxv. The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m^3 , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- iv. Water meters shall be provided at the inlet to all unit processes in the plants.
- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
- vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- ix. Air Cooled condensers shall be used in the captive power plant.

IV. Noise monitoring and prevention

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- iii. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

V. Energy Conservation measures

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.
- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iv. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <https://cpcb.nic.in/technical-guidelines-3/>. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- vi. Solid waste utilization
 - a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
 - b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
 - c. Used refractories shall be recycled as far as possible.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
- ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP.

Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.

- vii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- viii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
- xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
- xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xvii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Agenda No. 19.5

19.5 Expansion of Ferro Alloys Manufacturing Unit from 64,000 TPA to 88,000 TPA (Phase I: 76,000 TPA & Phase II: 88,000 TPA) (including 48,000 TPA of Medium & Low Carbon Ferro Alloys), Pig Iron (56,000 TPA) and Captive Power Plant from 20 MW to 28 MW (Phase I: 24 MW & Phase II: 28 MW) (Under Para 7(ii) (a) as per EIA Notification, 2006 and subsequent amendments) by M/s. Hira Power & Steels Limited, Unit-II, located at Urla Industrial Area, Raipur, Chhattisgarh- Consideration of EC.

[Proposal no.: IA/CG/IND1/560478/2025; File No. IA-J-11011/836/2008-IA-II (IND-I)]

[Consultant: Eco Orbit Consultancy Pvt. Ltd.; Valid upto: 08.01.2027]

- 19.5.1 M/s Hira Power & Steels Limited, Unit-II has made an online application vide Proposal No. IA/CG/IND1/560478/2025 dated 21.12.2025 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of para 7(ii) of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a) Metallurgical industries (ferrous and non-ferrous) and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.
- 19.5.2 Name of the EIA consultant: M/s. Eco Orbit Consultancy Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/24-27/IA 0134_Rev.02; valid upto 08.01.2027].

Details submitted by Project proponent

- 19.5.3 The project of M/s Hira Power & Steels Limited located in Khasra No. 156,500,508,509,510,511/1,511/2,512/1,512/2,513/1, -513/5 and Others, Urla Industrial Area, Raipur, Chhattisgarh is for a two-phased expansion of its existing integrated metallurgical facility. In Phase I, Ferro Alloys production will increase from 64,000 TPA to 76,000 TPA by operating the existing Submerged Electric Arc Furnaces (SEAF) at higher efficiency without installing new units. During this phase, the Captive Power Plant (CPP) capacity will be increased from 20 MW to 24 MW through the installation of a 28 MW Turbine Generator set. In Phase II, Ferro Alloys production will increase from 76,000 TPA to 88,000 TPA by installing an additional 9 MVA SEAF, and to enhance CPP capacity from 24 MW to 28 MW by bringing the full 28 MW Turbine into operation. Thus in the instant proposal, Ferro Alloys production will increase from 64,000 TPA to 76,000 TPA and CPP from 20 MW to 24 MW [**20% expansion in Phase I**] under para 7(ii) of EIA Notification, 2006 [OM dated 11.04.2022].
- 19.5.4 **Justification for applying under the provisions of para 7(ii) of EIA Notification, 2006:**
As per the OM dated 11th April 2022 para-5, subject to fulfilment of the para 4(i) to (viii), if intended change is upto 20 % based on successful compliance of previous environmental safeguard conditions & up-to 40 % based on successful compliance of previous environmental safeguard conditions related to expansion of 20%, Revised EIA/EMP required to be prepared and same shall be appraised by Appraisal Committee, as stated above 40% expansion in production capacity is proposed which will be done in 2 phases viz. 20% in Phase I (Ferro Alloys production will increase from 64,000 TPA to 76,000 TPA and Captive Power Plant (CPP) capacity will be increased from 20 MW to 24 MW) and subsequent 20% in Phase II (Ferro Alloys production will increase from 76,000 TPA to 88,000 TPA by installing an additional 9 MVA SEAF, and to enhance CPP capacity from 24 MW to 28 MW). Point-wise Compliance to the conditions mentioned in the Para 4 of the Ministry's O.M. F.No. IA3-22/10/2022-IA.III [E 177258] dated 11.04.2022 is given as below:

Sr. No.	Condition as per OM dated 11th April 2022	Compliance by the proposed proposal
i.	The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those categories of project which have been exempted as per para	Complied The Public hearing was successfully conducted on 21 st July, 2022.

Sr. No.	Condition as per OM dated 11 th April 2022	Compliance by the proposed proposal
	7 III (i) of EIA notification 2006 and its amendments.	
ii.	There should not be change in Category of the project from B2 to B1 or A due to proposed modernization or expansion.	Complied. The project falls under category A of schedule Item No 3(a) of the EIA notification. Post expansion it remains to be A category project under schedule Item No 3(a).
iii.	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regards to mining vis-à-vis the area mentioned in the EC, based on which public hearing has been held earlier.	Complied. Proposed expansion is proposed within the existing plant premises. No additional land acquisition or forest land diversion is involved.
iv.	The proposed expansion shall not be more than 50% of the production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	Complied. Proposed Production is within 40% (Phase I: 20% & Phase II: 20%).
v.	Predict environmental quality parameters arising out of proposed expansion/modernization as per prescribed norms.	Complied. After proposed expansion, the environmental quality parameters will be within the prescribed norms.
vi.	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.	Complied. The greenbelt of the project remains same as stipulated in the earlier EC.
vii.	The project proponent should have satisfactorily complied the conditions stipulated in the existing ECs and satisfactorily fulfilled all the commitments made during the earlier public hearing/consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/SPCB, which should not be more than one year old at the time of submission of application.	Complied. All the conditions stipulated in the existing EC and commitments made during the earlier public hearing proceedings and also the commitments made while granting previous expansion are satisfactorily Complied. Latest Certified Compliance Report dated 21.07.2025 is attached as Annexure 5 .
viii.	Public consultation shall be undertaken (if applicable as per table below) by obtaining response in writing, as per para 7III (ii) (b) of EIA notification 2006, except those	Complied No Fresh Public Hearing is required as per office Memorandum dated 11 April 2022. However the latest Public hearing was successfully conducted on 21 st July, 2022.

Sr. No.	Condition as per OM dated 11 th April 2022	Compliance by the proposed proposal
	categories of projects which have been exempted as per para 7III (i) of EIA notification 2006 and its amendments.	
ix.	Effluent monitoring, including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	Complied.

19.5.5 Details of EDS:

Details of EDS south by Ministry	Reply by PP
<p>PP has uploaded the CCR report dated 01.12.2025 issued by the Regional Office, MoEF&CC, wherein certain partially/non-compliances in respect of the earlier ECs dated 11.02.2009 and 05.02.2024 have been reported. PP has informed that an Action Taken Report has been submitted to the Regional Office 01.12.2025. However, since the proposal has been submitted under Para 7(ii) of the EIA Notification, 2006, (i.e. without Public hearing) and as per the Ministry's OM dated 11.04.2022, submission of a satisfactorily complied CCR is required for appraisal. It is therefore, requested to submit a Review Report on Partial/ Non-compliances. It may also be clarified whether IA-CMD has taken cognizance of the case.</p>	<ul style="list-style-type: none"> This is to respectfully submit that the Certified Compliance Report (CCR) dated 01.12.2025 has reported eight partially complied conditions, all of which are administrative in nature and pertain solely to the submission of documentary evidence (Annexure-1). Importantly, no major non-compliance has been reported. In response, an Action Taken Report, along with complete supporting documents, was promptly submitted to the Regional Office of the MoEF&CC on 02.12.2025, i.e., immediately following the issuance of the CCR (Annexure-2). However, as of date, no closure report or further communication has been received from the Integrated Regional Office (IRO), MoEF&CC. To expedite the process, IA-CMD has issued a formal request to the Regional Office via letter dated 19.12.2025, seeking the issuance of the closure report (Annexure-3). Based on prior experience, we understand that the issuance of a formal closure review report may require considerable time. It is pertinent to highlight that the State Pollution Control Board has already verified and certified 100% compliance in their Certified Compliance Report. <p>In light of the above, we earnestly request the Hon'ble Committee to kindly consider aforesaid submission and Grant us EC at the earliest. We reaffirm our unwavering commitment to ensuring full compliance with all stipulated conditions of the existing Environmental Clearance.</p>

Details of EDS south by Ministry	Reply by PP
Since PP has resubmitted the proposal, it is requested to ensure that all the issues raised in previous proposal may be incorporated in the EIA Report.	PP confirms that the proposal has been resubmitted after duly incorporating all observations and issues raised earlier by the Ministry into the revised EIA/EMP report.

19.5.6 Environmental Site Settings:

S. No.	Particulars	Details			Remarks
1.	Total Land	17.6 hectares (approximately 43.5 acres) of Private Land.			Land use: Industrial
2.	Land acquisition details as per MoEF&CC OM dated 07/10/2014.	100% land is in possession of the company			
3.	Existence of habitation & involvement of R&R, if any.	Project site: Nil			No R&R involved.
		Habitation	Distance	Direction	
		Urla	840m	West	
4.	Latitude & Longitude of all corners of project site.	Point	Latitude	Longitude	None
		A	21°19'18.17"N	81°37'11.57"E	
		B	21°19'7.52"N	81°37'19.41"E	
		C	21°18'54.09"N	81°37'8.98"E	
		D	21°18'53.78"N	81°37'0.59"E	
5.	Elevation of the project site.	290 m above mean sea level (amsl),			
6.	Involvement of forest land, if any.	None			
7.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	Water body	Distance	Direction	None
		Kharun River	3.3 km	NE	
		Chhokra Nala	2.89 km	NNE	
8.	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area.	None			

19.5.7 The existing project was initially implemented after obtaining NOCs from the Madhya Pradesh Pollution Control Board (MPPCB) in 1994 for production of 30,000 TPA of Ferro Alloys. Subsequently, Environmental Clearance for an additional capacity of 18,000 TPA of Ferro Alloys was granted vide MoEF&CC letter No. F. No. J-11011/836/2008-IA-II(I) dated 11.02.2009. Prior to the said clearance, the plant was operating with a capacity of 30,000 TPA of Ferro Alloys along with a 20 MW power plant. Thereafter, the project was accorded Environmental Clearance by

MoEF&CC vide letter No. IA-J-11011/836/2008-IA-II(IND-I) dated 05.02.2024 for enhancement of Ferro Alloy production capacity from 48,000 TPA to 64,000 TPA through improvement in efficiency and use of better quality raw materials, without any change in plant and machinery. The project subsequently obtained Consent to Establish-cum-Operate from the Chhattisgarh Environment Conservation Board (CECB) vide letter No. 10518/TS/CECB/2024 dated 28.03.2024, followed by renewal of Consent to Operate vide letter No. 11027/TS/CECB/2025 dated 21.02.2025, which is valid up to 28.02.2030.

19.5.8 Implementation status of the existing EC/CTE/CTO:

S. No.	Facilities	Units	As per EC dated 5 th February 2024	Implementation Status as on Date	Production as per CTO
1.	Ferro Alloys	TPA	64,000 TPA [Including Low / Medium Carbon Ferro Alloys 48,000 TPA]	Completed	64,000 TPA [Including Low / Medium Carbon Ferro Alloys 48,000 TPA]
2.	Pig Iron	TPA	56,000 TPA	Completed	56,000 TPA
3.	Captive Power Plant	MW	20 MW	Completed	20 MW

19.5.9 The unit configuration and capacity of existing and proposed project is given as below:

S. No.	Details of Unit	Capacity (TPA)			% Increase
		As per EC & CTO	After Phase I Expansion	After Phase II Expansion	
1	Ferro Alloys	64,000 TPA [Including Low / Medium Carbon Ferro Alloys 48,000 TPA]	76,000 TPA [Including Low / Medium Carbon Ferro Alloys 48,000 TPA]	88,000 TPA [Including Low / Medium Carbon Ferro Alloys 48,000 TPA]	18.75% increase in Phase I & 18.75% in Phase II
2	or Pig Iron	56,000 TPA	or -	56,000 TPA	No Change
3	Captive Power Plant	20 MW	24 MW	28 MW	20% increase in Phase I & 20% increase in Phase II

Configurational Changes in both Phases:

S. No.	Plant Equipment/ Facility	Existing facilities as per EC dated 5 th February 2024		Proposed Units		Final (Existing + Proposed)		Remarks
		Config	Cap	Config	Cap	Config	Cap	
1	Ferro Alloys or Pig Iron	Submerged Arc Furnace (SAF) (3, 3.6, 2x5.5, 6 MVA)	5	Submerged Arc Furnace (SAF)-9 MVA	1	Submerged Arc Furnace (SAF) (3, 3.6, 2x5.5, 6 MVA, 9 MVA)	1	Proposed in Phase II
2	Captive Power Plant	Captive Power Plant (20 MW)	1	Captive Power Plant (28 MW)	1	Captive Power Plant (28 MW)	1	4 MW in Phase I and 4 MW in Phase II

19.5.10 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S.No.	Raw Material	Quantity required per annum (TPA)			Mode of Transportation
		Existing	After Expansion (Phase I)	After Expansion (Phase II)	
1.	Manganese Ore	160000	1,90,000	2,20,000	Rail/Road
2.	Coal	33,600	33,600	33,600	Rail/Road
3.	Coke	15,900	25,148	38,400	Road
4.	Dolomite	16,000	19,000	22,000	Road
5.	Carbon Paste	1,920	2,280	2,640	Road
6.	Iron	6,400	35,000	8,800	Road
7.	Iron Ore	0	8,800	8,800	Road
8.	Ferro Slag	29,400	35,000	40,600	Road
9.	Iron Ore	55440	55440	55440	Road
10.	Mill Scale	28,840	28,840	28,840	Road
11.	Iron ore Fines	6,160	6,160	6,160	Road
12.	Quartz	2,800	2,800	2,800	Road
13.	Dolomite/Limestone	16,800	16,800	16,800	Road
14.	Pearl coke	10,920	10,920	10,920	Road
15.	Steam coal	26880	26880	26880	Road
16.	Electrode Paste	448	448	448	Road
17.	High Carbon Ferro Alloys	47,680	47,680	47,680	Road
18.	Calcined Lime	3,072	3,072	3,072	Road

S.No.	Raw Material	Quantity required per annum (TPA)			Mode of Transportation
		Existing	After Expansion (Phase I)	After Expansion (Phase II)	
19.	Calcined Dolomite	1,728	1,728	1,728	Road
20.	Silico Manganese (Si-Mn) Fines	7,200	7,200	7,200	Road
21.	Ferro Silicon (Fe-Si) Fines	2,400	2,400	2,400	Road

S No	Existing Raw Material	Quantity (TPA)	After Expansion Raw Material (Phase I)	Quantity (TPA)	After Expansion Raw Material (Phase II)	Quantity (TPA)
1	Coal (G.C.V=4,250)	1,52,000	Coal (G.C.V=5,200)	1,52,000	Coal (G.C.V=5,500)	1,52,000
2	Coal (G.C.V=3,000)	2,08,000	Coal (G.C.V=4,300)	2,08,000	Coal (G.C.V=4,000)	2,08,000
3	Coal Mix (G.C.V = 2750)		Coal Mix (G.C.V = 3,250)		Coal Mix (G.C.V = 3060)	
a	Coal	2,08,000	Coal	2,08,000	Coal	2,08,000
b	Dolochar	14000	Dolochar	50,000	Dolochar	80000
c	Biomass	14000	Biomass		Biomass	

- 19.5.11 Existing water requirement is 542 KLD, which is obtained from CSIDC industrial water supply & Groundwater and permissions for the same has been obtained vide Letter No./CSIDC/EE/DIV-II/2020-21/15479 dated 22/01/2021 and CGWA/NOC/IND/REN/1/2024/9854 dated 13/08/2024. After the proposed expansion, the total freshwater requirement will marginally increase to 616 KLD in Phase I and 690 KLD in Phase II. The source of water supply will be CSIDC water supply, Supply of Treated water of STP of Raipur Municipal Corporation (655 KLD) & Ground water (35 KLD).
- 19.5.12 Existing power requirement of 26 MW is obtained from Captive, CSPDCL & Solar. The power requirement for the proposed project is estimated as 35 MW. In Phase I, the demand will increase to approximately 30 MW, and in Phase II, to about 35 MW, covering the full operational load of furnaces, CLU converter, and auxiliary systems. At present, the plant meets its average consumption of ~26 MW through a combination of its 20 MW Captive Power Plant (CPP), supplemented by ~0.80 MW from Chhattisgarh State Power Distribution Company Limited (CSPDCL) and ~5.2 MW from solar power. With the proposed expansion—enhancing Ferro Alloys capacity to 76,000 TPA in Phase I and 88,000 TPA in Phase II—the captive generation infrastructure will also be scaled up through installation of a higher-efficiency turbine system, enabling 24 MW net generation in Phase I and 28 MW in Phase II. This will allow the CPP to continue meeting the majority of the plant's energy demand. The balance requirement, estimated at ~2 MW in Phase I and ~7 MW in Phase II, will be reliably sourced from external supply, comprising ~1 MW from CSPDCL and ~6 MW from solar energy.

19.5.13 Baseline Environmental Studies:

Period	Details
AAQ parameters at 8 locations	PM ₁₀ : 58 to 115 µg/m ³ PM _{2.5} : 22 to 64 µg/m ³ SO ₂ : 5.7 to 15.2 µg/m ³ Nox: 11.2 to 37.4 µg/m ³
Incremental GLC level	Phase –I: PM ₁₀ : 1.9 µg/m ³ , PM _{2.5} : 1.72 µg/m ³ , NOx: 4.19 mg/m ³ , SO ₂ : 3.8 mg/m ³ Phase –II: PM ₁₀ : 3.17 µg/m ³ , PM _{2.5} : 2.87 µg/m ³ , NOx: 4.19 mg/m ³ , and SO ₂ : 3.8 mg/m ³
Groundwater quality at 8 locations	pH: 7.12 to 7.4; Hardness: 190 to 428 mg/l; TDS: 348 to 762 mg/l; Chloride: 50 to 156 mg/l; Sulphates: 16.4 to 52 mg/l
Surface quality at 8 locations	pH: 6.98 to 7.58; Hardness: 100-185.2 mg/l; TDS: 200 – 528 mg/l; DO: 4.5 mg/l to 7.1 mg/l; BOD: 18 to 28 mg/l; COD: 44 to 62 mg/l
Noise levels (Leq) (Day & Night)	51.4 to 63.5 dB(A) for the day time and 50 to 75 dB(A) for the night time.
Flora and fauna	No Schedule I species are present within the site or 2k study area.

19.5.14 The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below.

Sr. No	Type of waste	Cat. & Sch	Quantity (MTPA)			Disposal Method
			Existing	After Phase I Expansion	After Phase II Expansion	
1	Si-Mn Slag	-	42,000	42,000	42,000	Used for filling of low-lying area/land filling/construction purpose/sell to Cement plant.
2	Fe-Mn Slag	-	51,200	60,800	70,400	Reused as raw material in manufacturing of Silico Manganese/ Sold to Si-Mn Manufacturers.
3	Pig Iron Slag	-	28,000	28,000	28,000	Used for filling of low-lying area/land filling/construction purpose/sell to Cement plant.
4	Bag Filter dust	-	2640	3135	3630	Reused in the manufacturing process after briquetting
5	AOD Slag	-	8316	8316	8316	High MnO slag reused in Si-Mn production and marketed for industrial applications

Sr. No	Type of waste	Cat. & Sch	Quantity (MTPA)			Disposal Method
			Existing	After Phase I Expansion	After Phase II Expansion	
6	Mn3O4 Dust		2500	2500	2500	Recycled into the manufacturing process
7	Alumino Thermic Slag		1318	1318	1318	Sold as synthetic slag to steel plants
8	Fly Ash	-	86,000	86,000	86,000	Sold out to bricks manufactures (MOU with multiple bricks manufacturer)
9	Bottom Ash	-	4,000	4,000	4,000	Sold out to bricks manufactures (MOU with multiple bricks manufacturer)
10	Bed Material		4.0	4.0	4.0	Reused in Boiler Furnace
11	Used/spent oil	5.1 (Sch I)	10 KL/A	10 KL/A	10 KL/A	To authorized recycler.
12	Spent oil exchange resin containing toxic metals	34.2 (Sch I)	0.25 MT/A	0.25 MT/A	0.25 MT/A	Sent to TSDF Site
13	Empty barrels/containers/line rs contaminated with hazardous chemicals /wastes	33.1 (Sch I)	15 MT/A	15 MT/A	15 MT/A	To authorized recycler.

19.5.15 Public Consultation:

The earlier public hearing was conducted for increase in production capacity of Ferro Alloy from 48000 TPA to 64000 on dated 21.07.2022. Public hearing has been exempted from this project in pursuance to the Ministry's O.M. dated 11.04.2022 for appraisal of instant proposal under para 7(ii) of EIA Notification, 2006.

Action plan as per MoEF&CC O.M. dated 30/09/2020:

The earlier public hearing for the existing capacity was carried out on 21.07.2022. PP has reported that all commitments made during the earlier public hearing have been fully implemented. Additional proposed expenditure towards CER are given below:

Additional proposed expenditure towards CER are given below.					
S No.	Activity and Action Plan	Year of implementation			Total Expenditure in three years (Rs. In Lakhs)
		(Budget in INR)			
		1 st Year	2 nd Year	3 rd Year	
1	Health Care	1	1	1	3
2	Rainwater harvesting	0.5	0.5	0.5	1.5
3	Solid waste management facilities	3.5	3.5	3.5	10.5
4	Plantation in additional areas	3	3	3	9
5	Water Sprinkling in Road	0.25	0.25	0.25	0.75
6	Solar power	0.5	0.5	0.5	1.5
	Total	8.75	8.75	8.75	26.25

- 19.5.16 Existing capital cost of project was Rs. 198.66 Crores. The capital cost of the proposed project is Rs 223.11 Crores (Phase-I) & Rs. 247.36 Crores (Phase-II) and the capital cost for environmental protection measures is proposed as Rs 7.69 Crores (769 Lakhs). The annual recurring cost towards the environmental protection measures is proposed as Rs. 1.065 Crores (106.5 Lakhs). The employment generation from the proposed project / expansion is 736. The details of cost for environmental protection measures is as follows:

S. No.	Component	Description	Capital Cost (Rs. in Lacs)	Recurring Cost (Rs. in Lacs/Year)
1	Air Quality	Control of Stack emissions (PM, SO ₂ , NO _x , CO), fugitive dust from raw material handling, transfer points, conveyors, fly ash silos, vehicular dust suppression, EV Loader	700	60
2	Noise Quality	Control of Noise generated from Fixed-point industrial noise sources (~85–95 dB(A)), rotating machinery, vehicular & handling system	12	1
3	Water Quality	Industrial effluent Treatment, sewage Treatment, wastewater reutilization, Groundwater recharge Storm water management.	12	4.5
4	Solid and Hazardous waste	Reuse of Solid Waste generation from Ferro Alloys, Pig Iron, Captive Power Plant, APC systems, MSW & Hazardous Waste Streams	40.5	0.5
5	Ecology and Biodiversity	Air emissions (PM ₁₀ , SO _x , NO _x) control artificial lighting, heat radiation, vehicular movement	4.5	0.5

S. No.	Component	Description	Capital Cost (Rs. in Lacs)	Recurring Cost (Rs. in Lacs/Year)
6	Socio-Economic	Long-term employment of employees, indirect jobs in logistics, vendors and ancillary support, Potential gender underrepresentation and community demand for visible CSR support, Occupational risks from thermal, mechanical, dust, and noise exposure, Traffic and dust near habitations during transport	-	40
TOTAL			769	106.5

19.5.17 The total project area is 17.60 hectares, out of which 5.86 hectares, accounting for 33.3% of the total area, has been developed as greenbelt. The greenbelt comprises 17,563 trees planted within the plant premises over 14.65 acres and 3,210 trees planted outside the premises over 3.28 acres, including roadside plantation along 3.5 km from the plant gate to Young India Chowk, covering an area of 1.4 hectares. In total, 20,773 trees have been planted. In total, the greenbelt coverage has exceeded 40%. The greenbelt width on the western side varies from 40 m to 160 m, providing an effective buffer. Regular annual gap filling is undertaken to maintain plant density.

19.5.18 It has been reported that following will be resource consumption after the proposed change:

Particulars	As per EC dated 5th February 2024	After proposed change under para 7(ii)	Increase
Land	176090 sqm	176090 sqm	Nil
Greenbelt	Within premises: 14.65 Acres; Outside premises: 3.28 Acres	Within premises: 14.65 Acres; Outside premises: 3.28 Acres	Nil
Water	542	Phase I: 616 KLD Phase II: 690 KLD	Phase I: 13.65% Phase II: 27.3%
Power	26	Phase I: 30 KLD Phase II: 35 KLD	Phase I: 15.38% Phase II: 34.6%
Products	Ferro Alloys: 64,000 TPA [Including Low / Medium Carbon Ferro Alloys 48,000 TPA] or Pig Iron- 56,000 TPA Captive Power Plant- 20 MW	Phase I 76,000 TPA [Including Low / Medium Carbon Ferro Alloys 48,000 TPA] & Captive Power Plant- 24 MW Phase II 88,000 TPA [Including Low / Medium	Ferro Alloys- 18.75% increase in Phase I & 18.75% in Phase II Pig Iron- No Change Captive Power Plant- 20% increase in Phase I & 20% increase in Phase II

Particulars	As per EC dated 5th February 2024	After proposed change under para 7(ii)	Increase
		Carbon Ferro Alloys 48,000 TPA] & Captive Power Plant- 28 MW	

19.5.19 Pollution Load Assessment

Particulars	As per EC dated 5th February 2024	After proposed change under para 7(ii)	After proposed change under para 7(ii)	Increase
		Phase I	Phase II	
Air	0.002592098 Ton per ton of product	0.00218282 Ton per ton product	0.001836473 Ton per ton product	Phase I: 15.78% Decrease Phase II: 29.1% Decrease
Water	174 KLD	211 KLD	247 KLD	Phase I: 21.26% Phase II: 41.95%
Solid and Hazardous Waste				
Si-Mn Slag	42,000 TPA	50,000	58,000	Phase I: 19% Increase Phase II: 38% Increase
Fe-Mn Slag	51,200 TPA	60,800	70,400	Phase I: 18.75% Increase Phase II: 37.5% Increase
Bag Filter dust	2640	3135	3630	Phase I: 18.75% Increase Phase II: 37.5% Increase
Traffic	3392.5 PCU/hr	3421.5 PCU/hr		0.85%

19.5.20 It is reported that there is no violation under EIA, 2006/court case/show cause/direction related to the project under consideration.

19.5.21 Certified compliance report from Regional Office, MoEFCC

Certified compliance report from Regional Office: The Status of compliance of earlier EC was obtained from IRO, MoEF&CC vide letter no. F.No.5-149/2009(ENV)/113 dated 01.12.2025 in the name of M/s Hira Power & Steels Limited, Unit-II. There were few observations for which action taken report was submitted to IRO, MoEF&CC on 02.12.2025:

Sl. No.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance/ comments of Sub-Office, Raipur.	PP's Clarification
i	Six monthly compliance report for the EC letter dated 11/02/2009 have not been submitted after the grant of expansion EC letter dated 05/02/2024 – general condition No.(xii).	<p>We would like to inform you that this is serious allegation on us and it is totally irrelevant.</p> <p>As per point No.6-23 of EC letter No.IA-J-11011/836/2008-IA.II(IND-I) dated 05/02/2024:-</p> <p>The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.</p> <p>As it is clearly mentioned that the conditions of</p>	<p>No records/ documents are made available by the Project Authority in their reply / ATR regarding corrective action taken on the observed non-compliance and thus non-compliance of the said condition remains as reported earlier.</p> <p>This Sub-Office completely disagree with the reply of the Project Authority on account of the following facts:</p> <ul style="list-style-type: none"> The EC letter No.J-11011/836/2008-IA.II(I) dated 11/02/2009 of MoEF&CC has already implemented and the said EC has not been superseded at any point of time. Accordingly, the said EC is valid till date. In such circumstances, it is mandatory to effectively comply with all the stipulated conditions of the EC letter by the Project Authority. 	<p>The Stipulated conditions of the previous EC granted vide Letter No. J-11011/836/2008- IA. II (I) dated 11/02/2009 has already been successfully verified by the previous Integrated Regional officer, Ministry of Environment, forest and Climate Change and Closure Report has also been successfully issued vide their closure report vide letter No. 5-149/2009 (ENV)/1185 dated 09.01.2023.Copy of report is attached as Annexure-I.</p> <p>We have submitted all the Six Monthly EC compliance Report for the EC granted vide Letter No. J-11011/836/2008- IA.</p>

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		<p>previously granted EC are common and applicable to most of the projects in general.</p> <p>It is our general practice that we are regularly submitting Six Monthly EC compliance conditions of EC granted vide Letter No. J-11011/836/2008-IA. II (I) dated 11/02/2009 along with Six monthly EC compliance report for EC letter No.IA-J-11011/836/2008-IA.II(IND-I) dated 05/02/2024 with General conditions along with other conditions issued by Ministry of Environment, Forest and Climate Change.</p>	<ul style="list-style-type: none"> According to the general condition No.(xii) of the EC letter dated 11/02/2009, a six monthly compliance report and the monitored data along with statistical interpretation should be submitted regularly to the MoEF&CC, CECB and CPCB. Apart from the stipulated EC conditions, as per the paragraph 10(ii) & (iii) of EIA Notification, 2006 and also as part of self-monitoring protocol, it is "mandatory for the project management to submit half-yearly compliance reports in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year. 	<p>II (I) dated 11/02/2009 and EC letter No. IA-J-11011/836/2008-IA.II(IND-I) dated 05/02/2024 by Email and Hard copies.</p> <p>We are uploading all the Six Monthly EC Compliance Report on the website of our company.</p> <p>During inspection by the Scientist E Ministry of Environment, Forest and Climate Change on 08.10.2025, six monthly EC Compliance Report of</p>

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			<p>(iii) All such compliance reports submitted by the project management shall be public documents.....”.</p> <ul style="list-style-type: none"> Project Authority in their reply reported that the observation of this Office is serious allegation on them and the observation is totally irrelevant, which clearly shows that Project Authority is not having zeal to take corrective action and effectively comply with the stipulated EC conditions rather submitting their own presumptions and assumptions as a reply, which tantamount contravention to the provisions of Environment (Protection) Act, 1985. In the recent past, Compliance and Monitoring Division of MoEF&CC requested this Office to ensure 	<p>previous EC granted vide Letter No. J-11011/836/2008- IA. II (I) dated 11/02/2009 and Six monthly EC compliance Report of the latest EC granted vide letter No. IA-J-11011/836/2008- IA.II(IND-I) dated 05/02/2024 has already been provided. Copy of Screenshot of Submission of Old EC through email to IRO,MOEFCC Raipur is attached as Annexure-II</p> <p>We have timely submitted six monthly EC</p>

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			<p>furnishing compliance status of all the valid ECs of the Project.</p> <ul style="list-style-type: none"> As a regulatory authority, this Office reported the factual status of compliance on the EC condition, based on the available records. If such diligent act is termed as irrelevant and serious allegation on the Industry, which needs to be further examined by the Ministry for taking further appropriate action. From the above submissions, it is evident that Project Authority has neither effectively complied with the general condition No.(xii) of the EC letter dated 11/02/2009 and also the paragraph 10(ii) of EIA Notification, 2006, even after the communication of this Office. 	<p>compliance Report of the EC letter dated 11/02/2009 . Copy of all the reports is enclosed as Annexure-III (a)</p> <p>We have requested IRO,Sub office Raipur and properly followed up via email but still after around 06 months , Certified Compliance has been issued .Copy of all the correspondence with IRO,Sub office ,Raipur is enclosed as Annexure-III (b)</p>
ii	Details are not made available regarding Newspaper advertisement –	This document is old and unfortunately missing from our official record. The same was verified and	Project Authority in their reply has not furnished any supporting document in respect of the	Copy of Newspaper advertisement is old and unfortunately missing from our official record. The

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	general condition No.(xiii).	closed by Integrated Regional Office, Naya Raipur Atal Nagar vide their Final Closure Report vide their letter No.5-149/2009(ENV)/1185 Dated 09.01.2023.	Newspaper advertisement published in compliance with general condition No.(xiii) rather reported irrelevant things as a reply. In the absence of mandated Newspaper advertisement, the condition remains as not-complied. Project proponent or any other Authority neither alter the EC condition as their own nor condone the compliance of the EC conditions, merely based on the self-declarations of the Project proponent. Ministry may take appropriate view.	same was verified and closed by Integrated Regional Office, Naya Raipur Atal Nagar vide their Final Closure Report vide their letter No.5-149/2009(ENV)/1185 Dated 09.01.2023
Letter No.IA-J-11011/836/2008-IA.II(IND-I) dated 05/02/2024 of MoEF&CC				
iii	Details are not made available regarding implementation of the specific condition No.(viii) regarding village adoption programme and action plan & its implementation to develop them into a model village.	<p>We have already submitted a letter to the District Collector, Raipur regarding Development activities carried out by us in Accholi village vide our letter No.2184/HPSL/2025-26/2184 dated 09.10.2025.</p> <p>This letter is also submitted to IRO, Raipur through Email dated 10.10.2025. Copy</p>	<p>Specific condition No.(viii) reads “As committed, PP shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village”.</p> <p>From the grant of EC to till the date of monitoring of the Project (08/10/2025) no records are available in this Office regarding, compliance</p>	The following works have been successfully completed and are being regularly maintained in consultation with the Birgaon Nagar Nigam and District Administration, our company has carried out CER work at Acholi village for community development.

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		of letter is enclosed as Annexure-I.	<p>of village adoption programme prepared, village adoption undertaken and implement the action plan to develop them into model villages.</p> <p>The subject of the document referred as Annexure-1 in the action taken report is mentioned as “Submission of compliance Report under Corporate Environment Responsibility (CER) – Developmental Activities at Accholi Village”.</p> <p>In the said letter (Annexure-1) there is no mention about the adoption of Village to develop them into a model village.</p> <p>In the said letter no reference regarding village adoption programme prepared.</p> <p>In the said letter simply reported that some community development work has been carried out under CER activities. The condition regarding implementation of</p>	<p>1.Construction of Two Sulabh Sauchalayas (Public Toilets) in Acholi village to promote sanitation and hygiene</p> <p>2. Development of a Muktidham (Cremation Ground) with necessary facilities for public use.</p> <p>3. Development and Maintenance of Two Public Gardens—one located at Urla Chowk and another at Young India Chowk, providing green and recreational spaces for the community.</p> <p>4. Roadside Plantation Drive in and around the adopted area to enhance greenery and environmental quality.</p> <p>All the above works have been carried out under the CER framework and are being maintained by our company to ensure sustainability and long-term benefit to the local population.</p>

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			<p>CER activities has been stipulated as General Condition No.IX(i) of the EC letter dated 05/02/2024. This Office has already mentioned the CER activities as Annexure-1 in the monitoring report issued.</p> <p>In the absence of preparation of village adoption programme and action plan for implementation to develop into a model villages as stipulated in the EC conditions, this Office has reported that condition has not been complied with. The compliance status remains as reported earlier. Ministry may take appropriate view based on the commitment referred therein the EC condition as committed by the Project Authority at the time of Project Appraisal for the EC letter dated 05/02/2024.</p>	<p>We remain committed to continuing our efforts toward social and environmental upliftment in coordination with your esteemed office and the concerned Birgaon Nagar Nigam.</p> <p>Also we have spend Rs 12,83,30,282/- under CER in Achholi Village.</p> <p>Letter submitted to Collector for development works carried out by our Plant is attached as Annexure- IV</p>

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iv	<p>Project Authority has installed only one CAAQM Station instead of two CAAQM Stations comprising of within and outside the plant area covering upwind and downwind directions. Project Authority has not linked the existing CAAQMS with the server of CPCB – general condition No.(II)(i), general condition No.(II)(ii) & general condition No.(II)(xxii).</p>	<p>We have already installed Two Continuous Ambient Air Quality Monitoring Systems, one is installed inside our plant premises and other is situated nearby 500 meter in our Hira Power and Steels Ltd., Unit-I, Urla industrial complex. Hence we satisfactorily installed two CAAQM Stations have comprising of within and outside the plant area covering upwind and downwind directions. We have also linked both Continuous Ambient Air Quality Monitoring Systems to the server of Chhattisgarh Environment Conservation Board which in turn transmits Data to CPCB. A Screenshot of Continuous Ambient Air Monitoring Station reading is attached as Annexure-II.</p>	<p>This Office completely disagree with the reply of the Project Authority submitted in their action taken report. In accordance with general condition No.(II)(i) and No.(II)(xxii) of the EC, one CAAQM Station installed has not been linked with the server of CPCB as mandated and thus it was reported as partly complied.</p> <p>In accordance with general condition No.(II)(i) of the EC, instead of installing Continuous Ambient Air Quality monitoring Stations for monitoring the pollutants released within and outside the plant area, both upwind and downwind directions, Project Authority has installed one CAAQM station and thus it was reported as partly complied. Project Authority while furnishing the input to this Office through e-mail communication, they</p>	<p>We will like to inform that We have already installed Two Continuous Ambient Air Quality Monitoring Systems, one is installed inside our plant premises and other is situated nearby 500 meter in our Hira Power and Steels Ltd., Unit-I, Urla industrial complex.</p> <p>Hence we satisfactorily installed two CAAQM Stations have comprising of within and outside the plant area covering upwind and downwind directions. We have also linked both Continuous Ambient Air Quality Monitoring Systems to the server of Chhattisgarh Environment Conservation Board which in turn transmits Data to CPCB. Copy of Screenshot is attached as Annexure- V</p>

Sl. No.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance/ comments of Sub-Office, Raipur.	PP's Clarification
			<p>mentioned only one CAAQMS. Now in the action taken report they claim the other CAAQMS installed in another Unit for this Unit, which is not accepted by this Office. If such practice is allowed, there will be a chaos among the industries. Ministry may take appropriate view in this regard.</p> <p>Despite of knowing the fact that CAAQMS needs to be linked with the server of the CPCB, Project Authority neither complied with nor submitted any time bound action plan.</p>	
v	<p>Project Authority either should comply with the condition or the conditions, which are not applicable to the project needs to be amended appropriately by following the procedures from the MoEF&CC – general condition No.(II)(xii), general condition No.(II)(xx) & general condition No.(VI)(i).</p>	<p>We have already informed Ministry of Environment, Forest and Climate that mentioned conditions are not applicable on us. In the nearby future, whenever New Environment Clearance will be granted, we will inform MoEF & CC to amend all such condition which will not applicable on us.</p>	<p>Project Authority claims that the general condition No.(II)(xii), general condition No.(II)(xx) & general condition No.(VI)(i) of the EC are not applicable to the Project. Project Authority either should comply with the condition or the conditions, which are not applicable to the project needs to be amended appropriately by following the procedures. So far, no documents are made</p>	<p>We have already informed MoEF&CC that the mentioned conditions the general condition No.(II)(xii), general condition No.(II)(xx) & general condition No.(VI)(i) of the EC are not applicable to our Project vide Six Monthly EC compliance Reports submitted for the granted vide letter No. IA-J-11011/836/2008-IA.II(IND-I) dated 05/02/2024.</p>

Sl. No.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance/ comments of Sub-Office, Raipur.	PP's Clarification
			<p>available regarding the amendments undertaken on these conditions and thus non-compliance remains as reported earlier. Project Authority in their reply stated that they have already informed MoEF&CC that the mentioned conditions are not applicable. However, in this regard no supporting documents are made available in their reply.</p> <p>In view of the above, Ministry may take appropriate view.</p>	
vi	Project authority has not organized awareness among people working within the Project area as well as its surrounding area on the ban of SUP – general condition No.(VI)(iv).	We would like to inform you that there is no generation/use of single use plastic in our plant premises. We have banned SUP long time back inside of our plant premises. This is the biggest proof that we are creating awareness regarding SUP from our homes to our Plant area. In future we will always follow the ban on SUP in our plant premises.	In the action taken report, Project Authority has not submitted any details regarding awareness programme organized among people working within the Project area as well as its surrounding area rather it has been reported that there is no generation/use of single use plastic in the above Unit. The stipulated condition is not the use of plastics in the industry rather it pertains to organize awareness among people on the ban of SUP. As there is no	We have created awareness among people for ban on SUP and the plastic pollution in our World Environment Day Celebration on 05.06.2025. Photographs are attached as Annexure - VI

Sl. No.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance/ comments of Sub-Office, Raipur.	PP's Clarification
			any details regarding awareness programme organized by this Unit, among people working within the Project area as well as its surrounding area on the ban of SUP, the condition remains as not complied.	
vii	CO sensors with alarm system have not been installed at strategic locations of the Plant– general condition No.(II)(xxvi).	We have already provided 02 Nos. of CO sensors with alarm system at strategic locations of the Plant. Photographs are enclosed as Annexure-III.	In the monitoring report, this Office has reported that CO sensors with alarm system have not been installed at strategic locations of the Plant rather portable CO analyzer has been provided at shop floor. The same has been shown in the photographs of the Annexure-III of the reply/action taken report. Ministry may take appropriate view in this regard.	In our Process for production of High Carbon Ferro Alloys we are using semi-closed hood system hence the CO gas generated and unused in the furnace are burn to CO2 above the charge level when it gets in contact with atmospheric air. Hence possibility of generation of Carbon monoxide is Very low. Also we have provided 02 Nos. of portable CO sensors with alarm system at strategic locations of the Plant. Photographs are enclosed as Annexure- VII
viii	Details are not made available regarding heat stress survey undertaken – general condition No.(IV)(iii) & general condition No.(VIII)(ii).	We have conducted Comprehensive Industrial Hygiene Survey through Third Party on 09.10.2024 in which Stress Analysis is also being conducted. Copy of report is	Project Authority in their reply submitted a report titled as “Comprehensive Industrial Hygiene Survey at Hira Power and Steel Ltd. – Urla” dated 09/10/2024 as Annexure-IV. The said	This condition is successfully complied with.

Sl. No.	Non-compliances communicated vide letter dated 01/12/2025 of MoEF&CC, Sub-Office, Raipur.	Reply /Action Taken Report (ATR) dated 02/12/2025 and 05/12/2025 of M/s Hira Power and Steels Ltd.	Updated status of compliance/ comments of Sub-Office, Raipur.	PP's Clarification
		enclosed as Annexure-IV .	report comprises heat stress survey is also one of the components and thus the condition may be treated as complied with.	

19.5.22 Action Plan with respect to Mitigation Measures for CPA/ SPA

Unit falls under a Critically Polluted Area (CPA) category, requiring stringent environmental safeguards. The following table provides a consolidated compliance report with respect to the mitigation measures mandated under the Ministry of Environment, Forest and Climate Change (MoEF&CC) Office Memorandum dated 31.10.2019 and 24.10.2019 and the CECB OM dated 17.12.2019

Action Point	Compliance Status	Implementation Status
Stack emission levels should be stringent than the existing standards in terms of the identified critical pollutants.	<ul style="list-style-type: none"> The primary emissions from the units comprises particulate matter and gaseous substances. To mitigate these pollutants, high-efficiency bag filters and gas cleaning facilities have been installed. These systems are designed to effectively reduce both gas and dust emissions. The emissions from Submerged Arc Furnace is being sucked through hoods and then pass through a fume extraction system with Bag Filter and then resulting cleaned gas is being released into the atmosphere through chimney from effective dispersion of emissions from furnaces. Online Continuous Emission Monitoring system (OCEMS) has already been installed to Submerged Arc furnace and connected to CPCB server. Stack emission from all the stacks is being maintained within 25 mg/Nm³. Ferro Alloy Plant: Bag Filter (5 no). Power Plant: ESP (Three fields ESP) 	We have complied. Date of completion – 25.08.2022

Action Point	Compliance Status	Implementation Status
CEMS may be installed in all large/medium red category industries (air polluting) and connected to SPCB and CPCB server.	<ul style="list-style-type: none"> CEMS has already been installed with following stacks in the existing Plant and connected with SPCB and CPCB server. Ferro Alloy Plant: (4 No's) Stack connected with Bag filters Power Plant: (1 No.) Stack connected with ESP 	We have complied. Date of Completion- 25.08.2022.
Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.	<ul style="list-style-type: none"> All material transfer points are connected with Dust Extraction system attached with Bag filter. Dust extraction measures with swivel hood, ID fan are provided at different loading, unloading and transfer points in the raw material handling section. Fumes and gases in SAF and other sections are removed by Fume extraction system with bag house followed by stack. Adequate dust suppression system in the form of water sprinklers (45 No.) are provided at raw material yard, solid waste dump site and along the vehicular roads. All internal roads are of concrete and well maintained. Repairing work required, if any, is carried out immediately. No dust problem arises within the factory premises due to transportation. Adequate spares of critical components of dust collection systems have been kept ensuring trouble free operations and continuous compliance to emission norms. 	We have complied. Date of Completion- 03.04.2018
Transportation of materials by rail/ conveyor belt, wherever feasible	<ul style="list-style-type: none"> Transportation of Raw materials, fuel and finished products, solid waste like Fly Ash etc. are being transported in covered vehicles by Roads/Rail (Covered with Tarpaulin). Dust extraction measures with swivel hood, ID fan are provided at different loading, unloading and transfer points in the raw material handling section. All the 	We have complied of completion – 25.04.1995

Action Point	Compliance Status	Implementation Status
	conveyor belts provided cover system to control fugitive emission.	
Encourage use of cleaner fuels (pet coke/ furnace oil/ ISHS may be avoided).	Coal and coke is being used as fuels in the plant as these are basic raw materials to be used for Ferro alloys products.	We have complied Date of completion – 25.04.1995
Best Available Technology may be used. For example, usage of EAF/SAF/ IF in place of Cupola furnace. Usage of Supercritical technology in place of sub-critical technology.	<ul style="list-style-type: none"> Submerged Arc Furnace is being used for Ferro Alloys production which is best available proven technology. Polyester filter bags with high quality Polyester Needle Felted fabric filter bags. Process with minimal emission DCS Operated manufacturing plants 	We have complied Date of completion – 25.04.1995 We have complied Date of completion – 05.05.2024.
Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.	Till date we have planted trees as below: - Inside Plantation= 17,528 Nos. (in 14.65 Acres) Outside Plantation=3,245 No. (in 3.28 Acres) Total Plantation=20,773 No. <ul style="list-style-type: none"> We would like to inform you that we have achieved the target of more than 40% greenbelt. We are increasing the density of existing plantation inside the plant premises Greenbelt Length towards the west side is ranging from 40m to 160m (including tall trees and good canopy). Damaged plants are being replaced with new plants every year. 	We have completed Date of completion – 13.01.2023
Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.	<ul style="list-style-type: none"> Hira Power and Steel Limited has also done the road side plantation of 3.5 Km on road side from gate of the plant to young India chowk, Police station, From Main Gate to Jai hind chowk . Outside Plantation=3245 No. (in 3.28 Acres) 	We have completed Date of completion – 13.01.2023
Assessment of carrying capacity of transportation load on roads inside the industrial premises. If the	Adequate Roads of proper width are available inside the plant premises. Already 9 meter wide road network is developed.	We have complied Date of completion – 25.04.1995

Action Point	Compliance Status	Implementation Status
roads required to be widened, shall be prescribed as a condition.		
Water Pollution Management		
Reuse/recycle of treated wastewater, wherever feasible	Water is being used only for cooling purpose in re-circulating manner. No any treated / untreated effluent is being discharged outside the factory premises. Waste water after treatment is being used for plantation and dust suppression purposes. Cooling Tower discharge water is being used for dust suppression purpose, inside the plant premises. Domestic waste water after treatment is being used for plantation and Dust suppression.	We have complied Date of completion – 17.04.2006
Continuous monitoring of effluent quality/quantity in large and medium Red Category Industries (water polluting).	The project is based on Zero Liquid Discharge. Continuous monitoring of effluent is being carried out to ensure 100 % recycle in own premises and no discharge outside the factory premises.	We have complied Date of completion – 25.04.1995
A detailed water harvesting plan may be submitted by the project proponent	Rain water harvesting pits and ground water recharge wells have been constructed in consultation with recognized agency to harvest the rainwater to improve water table. 08 number of rain water harvesting structures has been constructed in the plant premises.	We have complied Date of completion – 05.01.2024
Zero- liquid-discharge-wherever-techno economically feasible.	The project is based on Zero Liquid Discharge. Continuous monitoring of effluent is being carried out to ensure 100 % recycle in own premises and no discharge outside the factory premises.	We have complied Date of completion – 25.04.1995
In case, domestic wastewater generation is more than 10 KLD, the industry may install STP.	The domestic water is being treated in Installed Sewage Treatment Plant and reused for green belt development.	We have complied Date of completion – 10.02.2024
Land Pollution Management		
Action Point	Compliance Status	
Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever, feasible for new projects	Till date we have planted trees as below:- <ul style="list-style-type: none"> • Inside Plantation= 17528 No. (in 14.65 Acres) • Outside Plantation=3245 No. (in 3.28 Acres) • Total Plantation=20,773 No. 	We have completed Date of completion – 13.01.2023

Action Point	Compliance Status	Implementation Status
	<ul style="list-style-type: none"> We would like to inform you that we have achieved the target of more than 40% greenbelt. We are increasing the density of existing plantation inside the plant premises. Greenbelt Length towards the west side is ranging from 40m to 160m (including tall trees and good canopy). Damaged plants are being replaced with new plants every year. 	
Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.	<ul style="list-style-type: none"> Hira Power and Steel Limited has also done the road side plantation of 3.5 Km on road side from gate of the plant to young India chowk, Police station, From Main Gate to Jai hind chowk . Outside Plantation=3245 No. (in 3.28 Acres) 	We have completed Date of completion – 13.01.2023
Dumping of waste (fly ash, slag, red mud, etc.) may be permitted only at designated locations approved by SPCBs/ PCCs.	<ul style="list-style-type: none"> 51,200 TPA- FeMn and SiMn Slag ,It is reused in Manufacturing of SiMn and presently sold to market 2,640 TPA Bag Filter Dust will be Recycled/Reused in the Manufacturing process after briquetting. 1,980 TPA Mn₃O₄ Dust will be Recycled/Reused in the Manufacturing process. 8,315 TPA AOD slag is High MnO Slag used in manufacturing of Si-Mn, presently sold to market. 90,000 TPA Fly Ash used for Brick/Block/Other products manufacturing. 	We have complied Date of completion – 17.04.2006
More stringent norms for management of hazardous waste. The waste generated should be preferably utilized in co-Processing.	<ul style="list-style-type: none"> Generated Used Oil is being used for machinery lubrication and balance is being stored in covered HDPE Drums & given to CECB approved vendors/authorized recycler. 	We have complied Date of completion – 17.04.2006

Action Point	Compliance Status	Implementation Status
	<ul style="list-style-type: none"> Spent ion exchange resin is reused in process. Empty barrels/containers are sold to authorized recyclers (if generated) 	
Other Condition(additional)		
Monitoring of compliance of EC conditions may be submitted with third party audit every year.	Third party audited EC Compliance reports are being sent to Regional office MOEF & CC, Head Office CECB & Regional Office CECB regularly.	We have complied Date of completion – 16.05.2025
The % of the CER may be at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.	As per the Norms allocated value for CER is 10.0 Lakhs. We have spend Approx. Rs 13,06,800.00 for development of Public Bathroom and Toilets at Village Achholi Ward No.-08,Nagar Nigam Birgaon Raipur (C.G)	We have complied Date of Completion of Public bathrooms and Toilets at Village Achholi ward No. 08 Nagar Nigam Birgaon Raipur (C.G.)- 22.03.2024

19.5.23 Compliance Statement in line with the criteria specified under ‘Clause-9, Chapter 3- Criteria for Establishment of Industrial Plant’ of the G.S.R 85(E) dated 30th January 2025

S.No.	Conditions	Compliance
While establishing an industrial plant, the following minimum distance shall be maintained, namely: -		
a)	from the nearest boundary of surface water body (flood plain/ HFL/Red line) as per the revenue records in case of industrial unit of: (i) red category, beyond five hundred meters; (ii) orange category, (A) with effluent generation, beyond seventy-five meters; (B) without effluent generation, beyond thirty meters; (iii) green category, beyond thirty meters;	Being complied with. The nearest waterbody from the unit is Chhokra Nala located app. 2.89 Km, NNE and Kharun River located app. 3.3 Km, NE.
b)	from the settlement, educational institute, worship place, archaeological monuments, national park, reserve forest, heritage site, in case of industrial unit of –	Since, the existing facility had been established ... and the proposed expansion is being done within the existing plant boundary, the siting criteria norms do not

S.No.	Conditions	Compliance
	(i) red category, beyond five hundred meters; (ii) orange category, beyond two hundred meters; (iii) green category, beyond one hundred meters.	follow through. Additionally, the unit complies with the all environment and pollution control mitigation measures. + <ul style="list-style-type: none"> • Settlement: Urla (0.8 km, W) • Educational Institute: Raipur School (0.25 Km, E) • Worship Place: Shri Mahakaleshwar Temple (0.3km, E). • Archaeological Monument: None within 500m area. • National Park: None within 500m area. • Reserve Forest: None within 500m area. • Heritage Site: None within 500m area.
c)	The State Board shall ensure that other laws, rules, and regulations, and notifications are complied with by the industrial plant.	Being complied with. The CCR/status of compliance has been obtained from IRO, MoEF&CC vide letter no. F.No.5-149/2009(ENV)/113 dated 01.12.2025 in the name of M/s Hira Power & Steels Limited, Unit-II. There were few observations for which action taken report was submitted to IRO, MoEF&CC on 02.12.2025. It indicates that all relevant laws, rules, and regulations, and notifications are being complied with by the industrial plant.
d)	The natural or storm drain passing through the location of industrial unit shall not be disturbed.	Not applicable. No natural or storm drain passes through the industrial unit.

Written submission by the PP:

19.5.24 During the meeting, based on the deliberations made by the EAC, the project proponent through email dated 09.01.2026 has submitted copy of the letter dated 09.01.2026 to IA-CMD, MoEF&CC along with the current status and compliance details of the Action Review Report (as on date) requesting for issuance of the Action Closure Report.

Deliberations by the Committee

19.5.25 The Committee noted the following:

1. The instant proposal is for a two-phased expansion of its existing integrated metallurgical facility. In Phase I, Ferro Alloys production will increase from 64,000 TPA to 76,000 TPA by

operating the existing Submerged Electric Arc Furnaces (SEAF) at higher efficiency without installing new units. During this phase, the Captive Power Plant (CPP) capacity will be increased from 20 MW to 24 MW through the installation of a 28 MW Turbine Generator set. In Phase II, Ferro Alloys production will increase from 76,000 TPA to 88,000 TPA by installing an additional 9 MVA SEAF, and to enhance CPP capacity from 24 MW to 28 MW by bringing the full 28 MW Turbine into operation. Thus in the instant proposal, Ferro Alloys production will increase from 64,000 TPA to 76,000 TPA and CPP from 20 MW to 24 MW **[20% expansion in Phase I]** under para 7(ii) of EIA Notification, 2006 [OM dated 11.04.2022].

2. The EAC deliberated on the justification provided by the Project Proponent for appraisal of instant proposal under para 7(ii) of EIA Notification, 2006 in pursuance to the Ministry's O.M. dated 11.04.2022 and found it satisfactory. Further, since PP has prepared the Addendum EIA/EMP for seeking expansion of production capacity of Ferro Alloys production and CPP upto 40% in two phases, and considering the provisions mentioned in the O.M. dated 11.04.2022, **the EAC agreed to apprise the proposal for expansion for the proposed 20% expansion of Ferro Alloys production from 64,000 TPA to 76,000 TPA and CPP from 20 MW to 24 MW in Phase-I in the instant case.**
3. The existing project was initially implemented after obtaining NOCs from the Madhya Pradesh Pollution Control Board (MPPCB) in 1994 for production of 30,000 TPA of Ferro Alloys. Subsequently, Environmental Clearance for an additional capacity of 18,000 TPA of Ferro Alloys was granted vide MoEF&CC letter No. F. No. J-11011/836/2008-IA-II(I) dated 11.02.2009. Prior to the said clearance, the plant was operating with a capacity of 30,000 TPA of Ferro Alloys along with a 20 MW power plant. Thereafter, the project was accorded Environmental Clearance by MoEF&CC vide letter No. IA-J-11011/836/2008-IA-II(IND-I) dated 05.02.2024 for enhancement of Ferro Alloy production capacity from 48,000 TPA to 64,000 TPA through improvement in efficiency and use of better quality raw materials, without any change in plant and machinery. The project subsequently obtained Consent to Establish-cum-Operate from the Chhattisgarh Environment Conservation Board (CECB) vide letter No. 10518/TS/CECB/2024 dated 28.03.2024, followed by renewal of Consent to Operate vide letter No. 11027/TS/CECB/2025 dated 21.02.2025, which is valid up to 28.02.2030.
4. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/ domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
5. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
6. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
7. The Committee noted that the project is an expansion proposal applied under Para 7(ii)(a). Accordingly, it reviewed the mitigation measures proposed by the PP w.r.t. the proposed site

and nearby sensitive receptors, and found the same as adequate. The EAC also reviewed the compliance statement submitted by the project proponent regarding aspects such as land acquisition status / presence of streams or nallahs within the site / validity of baseline data / validity of the Certified Compliance Report / validity of the Public Hearing (PH), among other relevant factors. Upon examination, the Committee found the submission satisfactory for further appraisal of the proposal.

8. The total project area is 17.6 Ha. This land is under the possession of the company.
9. The EAC deliberated on the compliance of the conditions as per Ministry's guideline dated 24th October 2019 and found it satisfactory. The Committee noted that green belt should be developed covering 40% of the total project area.
10. The nearest habitation to plant is Urla Village at distance of 0.84 Km along with other sensitive areas including school within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
11. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
12. There are water bodies within study area of the project site. The EAC opined that robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
13. After the proposed expansion, the total freshwater requirement will marginally increase to 616 KLD in Phase I and 690 KLD in Phase II. The source of water supply will be CSIDC water supply, Supply of Treated water of STP of Raipur Municipal Corporation (655 KLD) & Ground water (35 KLD). The EAC opined that the PP secure the required approvals from the competent authority.
14. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project along with the pollution load assessment for the 40% expansion and observed that emission load is slightly increasing after the proposed expansion. Accordingly, the EAC found it satisfactory to appraise the instant proposal under para 7(ii) of EIA Notification, 2006.
15. The Committee also deliberated on the earlier public hearing issues and the status of compliance of action plan submitted by the proponent to address the issues raised during the public hearing along with the additional plan towards socio-economic development and found it satisfactory.
16. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be

designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.

17. PP reported that The total project area is 17.60 hectares, out of which 5.86 hectares, accounting for 33.3% of the total area, has been developed as greenbelt. The greenbelt comprises 17,563 trees planted within the plant premises over 14.65 acres and 3,210 trees planted outside the premises over 3.28 acres, including roadside plantation along 3.5 km from the plant gate to Young India Chowk, covering an area of 1.4 hectares. In total, 20,773 trees have been planted. In total, the greenbelt coverage has exceeded 40%. The greenbelt width on the western side varies from 40 m to 160 m, providing an effective buffer. Regular annual gap filling is undertaken to maintain plant density. The EAC deliberated on the greenbelt action plan and is of the opinion that greenbelt shall be completed in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025 and CEPI Guidelines.
18. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
19. **The Committee deliberated upon the certified compliance report of IRO, MoEF&CC and along with the ATR submitted by the project proponent and noted that IA CMD has already seized the matter for ensuring compliance of EC conditions. Accordingly, the EAC opined that the project proponent needs to obtain and submit Action Closure of IA-Compliance & Monitoring Division of MoEF&CC.**
20. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.
21. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
22. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
23. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

19.5.26 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal, **subject to uploading of written submission, along with submission of Action Closure Report from IA-CMD, MOEF&CC, on PARIVESH portal** for grant of Environment Clearance under the provisions of para 7(ii) of EIA Notification, 2006 **for the proposed 20% expansion of Ferro Alloys production from 64,000 TPA to 76,000 TPA and CPP from 20 MW to 24 MW in Phase-I** subject to the stipulation of following specific conditions and general conditions based on project specific requirements. The EAC categorically noted that the recommendation to grant EC is technical in nature under the provisions of the EIA Notification 2006, and subject to the fulfilment of commitments made by the PP to secure all the permissions/ approvals/ consents from Central/ State Authorities, as may be required. The recommendation does not create an obligation for authorities that handle issues related and relevant to construction and operation of the project under other independent procedures/ statutes, including the provisions stipulated in the Land Acquisition (R&R) Act, 2013. The specific and general conditions are mentioned below:

A. Specific Condition:

- i. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- ii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iii. The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iv. The Captive Power Plant(s) using coal or lignite shall comply with emission standards notified vide G.S.R. 465(E) dated 11-07-2025.
- v. In pursuance to MoEF&CC OM's dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI areas shall be implemented as per the submitted plan.
- vi. PP shall prepare and implement project specific AAQ plan to minimise the pollution load.
- vii. The nearest habitation to plant is Urla Village at distance of 0.84 Km along with other sensitive areas including school within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
- viii. Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the

- local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
- ix. There are water bodies within study area of the project site. Robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
 - x. The total freshwater requirement will marginally increase to 616 KLD in Phase I and 690 KLD in Phase II. The source of water supply will be CSIDC water supply, Supply of Treated water of STP of Raipur Municipal Corporation (655 KLD) & Ground water (35 KLD). PP shall secure the required approvals from the competent authority.
 - xi. Green Belt shall be developed and maintained in the project area in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025 and CEPI Guidelines. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
 - xii. The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at (<https://merilife.nic.in>)
 - xiii. All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC..
 - xiv. PP shall implement the skill development programs, in alignment with relevant Government initiatives/ programmes (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC.
 - xv. PP shall Install CO sensors with alarms at strategic locations in the Plant.
 - xvi. PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.
 - xvii. PP shall establish a dedicated in-house Research & Development (R&D) cell aimed at identifying, evaluating, and implementing emerging clean technologies. The focus of this cell will be on enhancing process efficiency, minimizing waste generation, and promoting circular economy practices within the plant operations. The effectiveness of the R&D initiatives shall be reviewed periodically, and outcomes contributing to sustainability shall be documented and reported
 - xviii. The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded,

compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.

B. General Conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
- ii. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 02 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area, covering upwind and downwind directions.
- iii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- ix. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration. (In cases of iron ore /cola/coke/lime/other fines)
- x. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.

- xi. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
- xiii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
- xiv. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
- xv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
- xvi. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
- xvii. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
- xviii. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- xix. Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
- xx. The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
- xxi. The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
- xxii. Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants.
- xxiii. No Ferro-chrome production shall be carried out without prior Environmental clearance from MOEF&CC.
- xxiv. During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
- xxv. The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

III. Water quality monitoring and preservation

- x. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time

and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- xi. The project proponent shall monitor regularly ground water quality at least twice a year (pre-and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- xii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- xiii. Water meters shall be provided at the inlet to all unit processes in the plants.
- xiv. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- xv. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
- xvi. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
- xvii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- xviii. Air Cooled condensers shall be used in the captive power plant.

IV. Noise monitoring and prevention

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- iii. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

V. Energy Conservation measures

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.
- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iv. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a

direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <https://cpcb.nic.in/technical-guidelines-3/>. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.

- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- vi. Solid waste utilization
 - a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
 - b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
 - c. Used refractories shall be recycled as far as possible.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
- ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility

(CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.

- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iv. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- viii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.

- x. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
- xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
- xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xvii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Agenda No. 19.6

19.6 Expansion in Production of sponge iron from 1,20,000 TPA to 1,80,000 TPA by adding of 2x100 TPD DRI unit and change in Technology from Induction Furnaces to Submerged Arc Furnaces (SAF) (12MVA*2) for the production of Fe-Si/ Fe-Mn/ Si-Mn/ Pig Iron- 64,000 TPA and additional 4 MW CPP (WHRB) by M/s. Sri Venkatesh Iron & Alloys (India) Limited, located at village Lapanga, P.O. Bhadaninagar, District Ramgarh, Jharkhand- Consideration of EC.

[Proposal no.: IA/JH/IND1/543433/2025: File No. IA-J-11011/417/2017-IA.II (I)]

[Consultant: Rian Enviro Private Limited (REPL); Valid upto: 11.09.2027]

- 19.6.1 M/s. Sri Venkatesh Iron & Alloys (India) Ltd has made an online application vide proposal no. IA/JH/IND1/543433/2025 dated 27.12.2025 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical industries (ferrous and non-ferrous), under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.
- 19.6.2 Name of the EIA consultant: M/s Rian Enviro Private Limited, Patna (Bihar) [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/24-27/RA-0368; Valid up to. 11.09.2027]

Details submitted by Project proponent

19.6.3 The detail of the ToR is furnished as below:

Date of application	Consideration	Details	Date of accord	ToR Validity
31.01.2025	Standard ToR issued	Terms of Reference	13.02.2025	12.02.2028

19.6.4 The project of M/s Sri Venkatesh Iron & Alloys (India) Ltd located in Lapanga Village, Bhadaninagar Tehsil, Ramgarh District, Jharkhand State is for “Expansion in Production of sponge iron from 1,20,000 TPA to 1,80,000 TPA by adding of 2x100 TPD DRI unit and change in Technology from Induction Furnaces to Submerged Arc Furnaces (SAF) (12MVA*2) for the production of Fe-Si/ Fe-Mn/ Si-Mn/ Pig Iron- 64,000 TPA and additional 4 MW CPP (WHRB).

19.6.5 **Details of EDS:**

Details of EDS sought by Ministry	Reply of PP														
<p>1. Point 1. NOC from State WRD w.r.t. the adjacent nallah/ stream.</p>	<p>It is submitted that a seasonal nallah exists in the vicinity of the project area. The project site does not encroach upon the natural drainage, and adequate buffer distance has been maintained as per applicable guidelines. We have applied to the State Water Resources Department (WRD) for issuance of NOC/certification confirming that the project activities do not obstruct the natural flow of the nallah / stream. The WRD NOC/certification, upon receipt, shall be submitted to the Ministry. Copy of receiving of submission of application to WRD is submitted.</p> <p>Office of the Executive Engineer, Water Resources Department, Jalpath Anchal, Hazaribagh (Memo No. 816 dated 23.12.2025), regarding issuance of No Objection Certificate (NOC) for the proposed industrial expansion of M/s Sri Venkatesh Iron & Alloys (India) Ltd., Village–Lapanga, Post Office–Bhadani Nagar, District–Ramgarh, Jharkhand.</p> <p>As mentioned in the above-referred letter, the proposal has been examined in light of the relevant guidelines of the Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India, including assessment based on 1 in 25 years flood plain data, and the same has been duly recommended for further necessary action. The NOC will be granted at the earliest from the Head office of WRD Ranchi Jharkhand.</p>														
<p>2. Point 2. In light of multiple non-compliances in CCR, Review report from RO MoEF&CC or Closure Report from IA CMD be submitted</p>	<p>Review report on Action Taken from RO MoEF&CC has been issued through vide letter No. 103-554/ROR-2020 dated 01.12.2025. The major finding is 11 partially complied conditions detected and 01 not complied condition have been highlighted in bold ink, and PP informed for taking corrective measures Copy of the Review Report is attached.</p>														
<p>Point 3. Detailed implementation status of the project in tabular form since start/ inception, duly linking it with CTE/ CTO/ EC,</p>	<p>A detailed tabular statement indicating the stage-wise implementation of the project from inception has been shown below.</p> <table><tr><th>S.N.</th><th>Project Milestone</th><th>Date</th><th>Supporting documents</th><th>Approved production capacity</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					S.N.	Project Milestone	Date	Supporting documents	Approved production capacity					
S.N.	Project Milestone	Date	Supporting documents	Approved production capacity											

Details of EDS sought by Ministry	Reply of PP				
along with uploading the supporting document.	1	Establishment of the Plant	16-07-2005	Consent To Establish issue by Jharkhand State Pollution Control Board through vide CTE Ref No. N-432, dated 16-07-2005).	Sponge Iron-400 TPD)
	2	Plant Operation	From Year 2005 to Till date	CTO Ref No. JSPCB/HO/RNC/CTO-23783817/2025/2819 dated 2025-12-09	Sponge Iron-400 TPD)
	3	Earlier Expansion	24-01-2020	Environmental Clearance vide ref. no. J-11011/417/2017-IA. II(I) dated 24.01.2020 CTE for Expansion - Ref No.: JSPCB/HO/RNC/CTE-16484600/2023/601 dated 21-10-2023	Sponge Iron - 400 TPD, Billet - 245 TPD (2X12T Induction Furnace), Billet Caster - 240 TPD, Power (WHRB) 8 MW, Power (AFBC) - 8 MW, Briquette - 26 TPD.
	4.	Proposed Expansion	13/02/2025	TOR Granted by MoEF&CC through vide File No.: J-11011/417/2017-IA.11(1) dated 13/02/2025	Expansion in Production of sponge iron from 1,20,000 TPA to 1,80,000 TPA by adding of 2x100 TPD DRI unit and change in Technology from Induction Furnaces to Submerged Arc Furnaces (SAF) (12MVA*2) for the production of Fe-Si/ Fe-Mn/ Si-Mn/ Pig Iron-64,000 TPA and additional 4 MW CPP (WHRB). The Supporting documents such as copies of EC, CTE,

Details of EDS sought by Ministry	Reply of PP				
					CTO, TOR are attached.
<p>Point 4. Proof of acquisition of land be submitted in compliance to OM dated 07-10-2014, along with supporting documents. The details be updated in PART A, Point-14 also. A Notarized land statement may be submitted duly mentioning land in hectare.</p>	<p>The Project Proponent has acquired the required land for the project through registered sale deeds/lease documents, in compliance with MoEF&CC OM dated 07.10.2014.</p> <p>A Notarized Land Statement has been prepared and submitted along with supporting documents.</p> <p>The land details have also been duly updated in Part A, Point 14.</p>				
<p>Point 5. PP shall coordinate with SPCB to ensure that the follow-up action mentioned in OM dated 14-01- 2025 is complied with submitted for further consideration of the proposal.</p>	<p>The Project Proponent is in active coordination with the Jharkhand State Pollution Control Board (JSPCB) to ensure compliance with the follow-up actions stipulated under OM dated 14.01.2025, including implementation requirements related to GSR 702/703 dated 12.11.2024, as applicable. Necessary steps for compliance, monitoring, and reporting are being undertaken, and confirmation from SPCB shall be submitted once available.</p> <p>Copy of receipt of letter in this regard is submitted.</p>				
<p>Point 6. The project is location in SPA, as per the information submitted in form. The compliance to CEPI guidelines for existing operations and the Action Plan for proposed operations be submitted. (OM dated 31-10-2019 / OM dated 24-10-2019 / OM dated 30-12-2019).</p>	<p>It is submitted that the project is not located in any Severely Polluted Area (SPA) or Critically Polluted Area (CPA), as per the latest CEPI classification issued by CPCB/MoEF&CC.</p>				

Details of EDS sought by Ministry	Reply of PP
<p>Point 7. The project land is observed to be in patches. Hence, PP my upload information on product and raw material transport plan, greenbelt development plan, information on installation of facilities within each patch.</p>	<p>It is respectfully submitted that the project land is not fragmented into operational patches. All industrial activities are confined to a single, contiguous parcel of land. The remaining parcel is exclusively earmarked for green belt development and does not involve any industrial or utility installations.</p> <p>The proposed expansion comprises the following land allocation: A. 8.239 hectares – Allocated for industrial operations along with integrated green belt development, ensuring a balanced approach between industrial activity and environmental protection. B. 3.194 hectares – Exclusively allocated for green belt development, further reinforcing the Project Proponent's commitment to environmental sustainability and compliance with green cover requirements.</p> <p>A detailed site layout plan clearly depicting all industrial facilities, internal roads, utilities, and designated green belt areas has been prepared and submitted.</p>

19.6.6 Environmental Site Settings:

S.N.	Particulars	Details	Remarks
1.	Total land	11.434 ha	<p>Land use: The project is undergoing a significant area expansion, increasing its total area from 5.82 hectares to 11.434 hectares. This expansion involves adding 5.614 hectares of land, which will be utilized as follows:</p> <p>Green Belt Development: 3.194 hectares will be dedicated exclusively to green belt development, contributing to environmental sustainability and conservation.</p> <p>Existing Plant Area Expansion: 2.419 hectares will be added to the existing plant area of 5.82 hectares, enhancing the project's operational capacity.</p> <p>The proposed expansion consists of two sections:</p> <p>a. 8.239 hectares: Designated for both industrial operations and green belt development, striking a balance between industrial growth and environmental conservation.</p> <p>b. 3.194 hectares: Exclusively</p>

S.N.	Particulars	Details	Remarks																																																									
			<p>allocated for green belt development, further emphasizing the project's commitment to environmental sustainability.</p> <p>The expansion aims to establish a green belt covering 41.24% of the total plot area, promoting environmental sustainability and reducing the project's ecological footprint. No forest land and no R&R are involved in additional land.</p>																																																									
2.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014		Break up of land and its lease/LOI/Consent/Possession details/Land conversion details are submitted.																																																									
3.	Existence of habitation & involvement of R&R, if any.	<table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Habitation	Distance	Direction	None	-	-	No R&R is proposed in the Project.																																																			
Habitation	Distance	Direction																																																										
None	-	-																																																										
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S.N.	Particulars	Details			Remarks												
		19	23°38'30.08"N	85°23'46.33"E													
		20	23°38'31.60"N	85°23'46.82"E													
		21	23°38'32.97"N	85°23'48.40"E													
		22	23°38'34.42"N	85°23'50.89"E													
		23	23°38'33.05"N	85°23'52.41"E													
		24	23°38'32.42"N	85°23'55.02"E													
		25	23°38'32.79"N	85°23'56.14"E													
		26	23°38'33.57"N	85°23'57.03"E													
		27	23°38'22.23"N	85°23'48.08"E													
		28	23°38'20.70"N	85°23'48.31"E													
		29	23°38'19.31"N	85°23'44.16"E													
		30	23°38'18.94"N	85°23'43.27"E													
		31	23°38'17.53"N	85°23'39.25"E													
		32	23°38'16.95"N	85°23'37.01"E													
		33	23°38'20.65"N	85°23'36.19"E													
		34	23°38'21.10"N	85°23'38.45"E													
		35	23°38'20.89"N	85°23'40.63"E													
		36	23°38'21.76"N	85°23'40.80"E													
		37	23°38'21.86"N	85°23'42.29"E													
		38	23°38'22.15"N	85°23'44.76"E													
		39	23°38'21.62"N	85°23'45.16"E													
		40	23°38'22.07"N	85°23'45.53"E													
5.	Elevation of the project site	General elevation of the project site is 338 M above mean sea level			-												
6.	Involvement of Forest land if any.	Not Applicable. No Forest Land is involved in the project site.			-												
7.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	<table><thead><tr><th>Water body</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>Dhobdhab Nala</td><td>10 m</td><td>North</td></tr><tr><td>Damodar River</td><td>1.15 km</td><td>North</td></tr><tr><td>Nalkari Nadi</td><td>7.0 km</td><td>North West</td></tr></tbody></table>			Water body	Distance	Direction	Dhobdhab Nala	10 m	North	Damodar River	1.15 km	North	Nalkari Nadi	7.0 km	North West	Authenticated HFL data of the water body shall be furnished.
Water body	Distance	Direction															
Dhobdhab Nala	10 m	North															
Damodar River	1.15 km	North															
Nalkari Nadi	7.0 km	North West															
8.	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/	There are no National Park, Wildlife Sanctuaries, ESZ etc, within the Study Area. List of Reserved and protected forests: No any reserved Forest is present within the study period (10 km radius), however, list of protected forest is given below.			No any reserved Forest is present within the study period (10 km radius), however, 10 protected forests are present in the study area.												

S.N.	Particulars	Details			Remarks
	tiger reserve/ elephant reserve etc. if any within the study area	Name of the Forest	Distance	Direction	
		Budka Pahar PF	7 km	SE	
		Armada PF	3 km	SE	
		Jarad PF	7.40	SW	
		Hariharpur PF	6.70	SW	
		Ghaghra PF	5.80	SW	
		Religarha PF	6 km	NW	
		Kurkuta PF	7.50 km	NW	
		Potanga PF	9.20 km	SW	
		Husir PF	9 km	N	
		Bundu PF	4 km	N	

19.6.7 Implementation status of the existing EC:

S.N.	Facilities	Units	Implementation Status as on 03/01/2026	As per EC dated	Production as per CTO
1	Sponge Iron Plant	4 × 100 TPD DRI Kilns	Commissioned	As per EC dated 24.01.2020	1,20,000 TPA
2	Captive Power Plant (CPP)	16 MW CPP based on 4 × 9 TPH WHRB & 50 TPH AFBC;	Under establishment	As per EC dated 24.01.2020	Nil
3	Briquette Plant	Briquette Plant 7850 TPA	Not Commissioned	As per EC dated 24.01.2020	Nil
5	Steel Melting Shop (SMS) with Billet Caster	2 × 12 T Induction Furnaces with 2-strand Billet Caster;	Not Commissioned	As per EC dated 24.01.2020	Nil

19.6.8 The unit configuration and capacity of existing and proposed project is given as below:

S.N.	Plant Equip-ment/ Facility	Existing facilities as per EC F. No. J-11011/417/2017- IA.11(1), dated 24.01.2020								Proposed Units		Final (Existing + Proposed)		Remarks
		Total (A+B)		Implemented (A)		Un-Imple-mented (B)		As per CTO						
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	
1.	Sponge Iron Unit	4X100 TPD DRI KILN	1120000 TPA	4X100 TPD DRI KILN	1120000 TPA	Nil	Nil	4X100 TPD DRI KILN	1120000 TPA	2x100 DRI Kiln.	60,000 TPA	6x100 DRI Kiln	1,80,000 TPA	
2.	Steel Melting Shop (SMS)	2X12 T Induction Furnace	72,000 TPA	Nil	Nil	2X12 T Induction Furnace	72,000 TPA	Nil	Nil	Nil	Nil	Nil	Nil	Dropped
	Proposed Submerged Electric Arc Furnace-	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	SAF-12 MVA*2	64,000 TPA	SAF-12 MVA*2	64,000 TPA	
3.	Captive Power Plant-	16 MW (8MW WHRB+ 8MW AFBC)	16 MW	Nil	Nil	16 MW (8MW WHRB+ 8MW AFBC)	16 MW	Nil	Nil	Addition of 4MW WHRB	4 MW	20 MW (12 MW WHRB+ 8 MW AFBC)	20 MW	
4.	Briquette Plant-	26 TPD	-	Nil	Nil	26 TPD	-	Nil	Nil	Nil	Nil	Nil	Nil	Dropped

19.6.9 The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

S.N.	Raw Material	Quantity required per annum			Source	Distance from site (Kms)	Mode of Transportation
		Existing	Expansion	Total			
1	Sponge Iron						
	• Iron Ore	192000 TPA	96000 TPA	288000 TPA		~350 Km	From mines in Odisha-by rail rake & then by road
	• Non-Coking Coal	156000 TPA	78000 TPA	234000 TPA	Open Market	~100 Km	From various mines of CCL and e-auction – by Rail rake and/or road
	• Dolomite	3600 TPA	1800 TPA	5400 TPA		~700 Km	From Uttar Pradesh-by road

S.N.	Raw Material	Quantity required per annum			Source	Distance from site (Kms)	Mode of Transportation
		Existing	Expansion	Total			
2	For Alloys/Pig Iron in SAF <ul style="list-style-type: none"> Manganese Ore Quartz Steam Coal Pearl Coke Dolomite Electrode Paste Limestone Charcoal Mill Scale Iron Ore 	0.0 TPA 0.0 TPA 0.0 TPA 0.0 TPA 0.0 TPA 0.0 TPA 0.0 TPA 0.0 TPA 0.0 TPA 0.0 TPA	 92160 TPA 7300 TPA 25600 TPA 19200 TPA 12800 TPA 1110 TPA 19200 TPA 25900 TPA 39000 TPA 70400 TPA	 92160 TPA 7300 TPA 25600 TPA 19200 TPA 12800 TPA 1110 TPA 19200 TPA 25900 TPA 39000 TPA 70400 TPA	MOIL, OMC Local market Local market Local market From Uttar Pradesh- by road From UP by road From UP by road Local market Local market From mines in Odisha- by rail rake & then by road	 ~350 Km ~200 Km ~100 Km ~100 Km ~700 Km ~350 Km ~700 Km ~100 Km ~70 Km ~350 Km	 By Rail or by Road

19.6.10 Existing Water requirement is 1410 m³/day, which is obtained from Central Water Commission, DVRRC Unit through vide letter No. 887-93 dated 01.07.2019. The water requirement for the proposed project is estimated to be 2,444 m³ (one-time) and 717 KLD (per day) after expansion. The

permission to draw 0.604 MCM/year (1,655 m³/day) of surface water from the Damodar River which has been obtained from the Central Water Commission via letter No. 887-93 dated 01.07.2019.

19.6.11 Existing power requirement of 2.15 MW is obtained from Power Grid. The power requirement for the proposed project is estimated as 19.7 MW. Total power requirement is 21.85, out of which 20 MW will be obtained from the CPP, and remaining balance power of 1.85 MW will be sourced from the Power Grid.

19.6.12 Baseline Environmental Studies:

Period	The baseline study was conducted during the period 1st October 2024 to 31st December 2024.					Remarks	
AAQ parameters at 08 no. of Locations (min and max)	<ul style="list-style-type: none">PM2.5 = 32.1µg/m3 to 52.4µg/m3;PM10 = 63.6µg/m3 to 95.7µg/m3;SO2 = 32.1µg/m3 to 52.4µg/m³;Nox = 13.8µg/m³ to 29.2µg/m³;CO = 0.27mg/m³ to 0.93mg/m³					-	
Incremental GLC level	The details of the Incremental GLC level are given below					-	
	S.N.	Parameter	Unit	GLC Value	Distance, m		Direction
	Emission from Existing Stacks under Controlled Scenario						
	1	PM ₁₀	µg/m ³	8.84	485		South East
	2	SO ₂	µg/m ³	1.74	679		East
	3	NO _x	µg/m ³	0.416	679		East
	Emissions from Existing Stacks under Uncontrolled Scenario						
	1	PM ₁₀	µg/m ³	1282	485		South East
	2	SO ₂	µg/m ³	101	679		East
	3	NO _x	µg/m ³	310	679		East
	Emissions from Stacks after Expansion under Controlled Scenario						
	1	PM ₁₀	µg/m ³	20.9	485		South East
	2	SO ₂	µg/m ³	24.7	485		South East
	3	NO _x	µg/m ³	17.9	485		South East
	Emissions from Stacks after Expansion under Uncontrolled Scenario						
	1	PM ₁₀	µg/m ³	2282	485		South East
	2	SO ₂	µg/m ³	176	679		East
	3	NO _x	µg/m ³	808	485		South East
Ground water quality at 08 no. locations	<ul style="list-style-type: none">pH: 7.08 to 7.88,Total Hardness: 253.1 to 370.5mg/l,Chlorides: 70.0 to 152.0mg/l,Fluoride: 0.26 to 0.39mg/l,Heavy metals (Iron): 1.01 to 1.28mg/l,					All the recorded values were within acceptable limits.	
Surface water quality at 05 no. locations	<ul style="list-style-type: none">pH: 7.6 to 8.21,DO: 4.7 to 7.80mg/l,BOD: 2.6 to 5.8mg/l,COD: 22.5 to 30.4mg/l,					All the recorded values were within acceptable limits.	

Noise levels Leq (Day and Night)	43.6 dB(A) to 72.5 d (A) for the day time, and 32.1 dB (A) to 66.3 dB (A) for the Night time.	All the recorded values were within acceptable limits.																																																																		
Traffic assessment study findings	<div><div><div><div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div></div><div><div><div>Traffic study has been conducted at SH-2 which is approximately 06 km (distance) from the plant site.</div><div>Transportation of raw material, fuel & finished product will be done 100 % by road.</div><div>Existing PCU is 1250 PCU/hr on .SH-2 and existing level of service (LOS) is:</div></div><div><table><tr><th rowspan="2">Road</th><th>V (Volume in</th><th>C (Capacity in</th><th>Existing V/C</th><th rowspan="2">LOS</th></tr><tr><th>PCU/hr</th><th>PCU/hr</th><th>Ratio</th></tr><tr><td>SH-2</td><td>618.02</td><td>1250</td><td>0.49</td><td>C</td></tr></table></div><div><div>PCU load after proposed project will be 618.02 (Existing) + 37 (Additional) PCU/hr and level of service (LOS) will be:</div><div><table><tr><th>Road</th><th>Increased PCU's- State Highway</th><th>V (Volume in PCU/hr)</th><th>C (capacity in PCU/hr</th><th>Modified V/C Ratio</th><th>LOS</th></tr><tr><td>SH-2</td><td>37x100%= 37</td><td>655</td><td>1250</td><td>0.52</td><td>C</td></tr></table></div></div><div><div>* Note: Capacity as per IRC 64-1990 Guide line for capacity for roads.</div><div>Conclusion: The level of service will Good/Average/Fair after including additional traffic due to proposed project.</div></div></div></div></div>	Road	V (Volume in	C (Capacity in	Existing V/C	LOS	PCU/hr	PCU/hr	Ratio	SH-2	618.02	1250	0.49	C	Road	Increased PCU's- State Highway	V (Volume in PCU/hr)	C (capacity in PCU/hr	Modified V/C Ratio	LOS	SH-2	37x100%= 37	655	1250	0.52	C																																										
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Flora and fauna	<div><div>As per the Wildlife (Protection) Act, 1972, and its recent amendment in December 2022, eight (8) species of schedule-I have been recorded from the different parts of the study area.</div><div><table><tr><th>S.N.</th><th>Common Name</th><th>Scientific Name</th><th>Family</th><th>Schedule Status as per WPA-1972 & 2022</th><th>IUCN Status</th></tr><tr><td colspan="6">Mammals</td></tr><tr><td>1</td><td>Elephas maximus</td><td>Asina elephant / Hathi</td><td>Elephantidae</td><td>I</td><td>EN</td></tr><tr><td>2</td><td>Felis chaus</td><td>Jungle cat</td><td>Felidae</td><td>I</td><td>LC</td></tr><tr><td>3</td><td>Urva edwardsi</td><td>Indian Grey Mongoose</td><td>Herpestidae</td><td>I</td><td>LC</td></tr><tr><td>4</td><td>Hyaena hyaena</td><td>Stripped hyena</td><td>Leporidae</td><td>I</td><td>NT</td></tr><tr><td>5</td><td>Vulpes bengalensis</td><td>Indian fox</td><td>Canidae</td><td>I</td><td>LC</td></tr><tr><td colspan="6">Reptiles and Amphibians</td></tr><tr><td>6</td><td>Ptyas mucosa</td><td>Rat Snake/ Dhaman</td><td>Colubridae</td><td>I</td><td>LC</td></tr><tr><td>7</td><td>Python molurus</td><td>Azgar / Python</td><td>Pythonidae</td><td>I</td><td>NT</td></tr><tr><td>8</td><td>Varanus bengalensis</td><td>India monitors lizard/ Goh</td><td>Varanidae</td><td>I</td><td>NT</td></tr></table></div></div>	S.N.	Common Name	Scientific Name	Family	Schedule Status as per WPA-1972 & 2022	IUCN Status	Mammals						1	Elephas maximus	Asina elephant / Hathi	Elephantidae	I	EN	2	Felis chaus	Jungle cat	Felidae	I	LC	3	Urva edwardsi	Indian Grey Mongoose	Herpestidae	I	LC	4	Hyaena hyaena	Stripped hyena	Leporidae	I	NT	5	Vulpes bengalensis	Indian fox	Canidae	I	LC	Reptiles and Amphibians						6	Ptyas mucosa	Rat Snake/ Dhaman	Colubridae	I	LC	7	Python molurus	Azgar / Python	Pythonidae	I	NT	8	Varanus bengalensis	India monitors lizard/ Goh	Varanidae	I	NT	For all the documented wildlife species, a site-specific wildlife conservation plan has been prepared and submitted to the DFO (Wildlife), Ramgarh, Jharkhand.
S.N.	Common Name	Scientific Name	Family	Schedule Status as per WPA-1972 & 2022	IUCN Status																																																															
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19.6.13 The details of solid waste generation along with its mode of treatment/disposal is furnished as below:

Type of Waste	Quantity in TPA	Disposal & Management
Sponge Iron Plant		
Dolo-Char	38,572 TPA	Dolo-Char will be used in AFBC Boiler in house. Storage in covered, impervious sheds to avoid air/dust pollution.
Wet scrapper sludge	3516 TPA	Dewatering and drying. Reuse in road construction, low-lying area filling,
Accretion	8,790 TPA	Crushing and metal recovery, followed by reuse in road sub-base material. Remaining inert to be landfilled or used in construction material
Power Plant		
Fly-ash from WHRBs	21,000	Management (as per Fly Ash Notification, 2021): Shall be sold to Fly ash Brick /Blocks making company and Cement Plant
Fly-ash from AFBC Boilers	20,400	Shall be sold to Fly ash Brick /Blocks making company and Cement Plant
Bottom Ash	5,100	Given free of cost to nearby Brick Kilns for use in Kiln as fuel
Coal Fines from Coal handling area	4,000	Use in AFBC Boiler
Submerged Electric Arc Furnace		
Slag	80254.8 TPA	If non-hazardous (as per TCLP): Used in road construction, cement clinker production, or aggregate substitute. If hazardous: Sent to TSDF or slag processing units with proper authorization.
Dust	326.964 TPA	Collected via bag filters and used in sinter plant or brick making (after characterization).
Domestic	13,500kg per Annum or ~37 kg/day	Management (as per Solid Waste Management Rules, 2016): <ul style="list-style-type: none"> • Source segregation into biodegradable and non-biodegradable. • Biodegradable: Composting. Non-biodegradable: Recyclables to be sent to authorized recyclers; rejects to municipal landfill
DG set & Machinery Used Oil (Schedule I (of service station/ other and send	1 TPA	Storage -Leak-proof containers to prevent spills and contamination Used oil should be sent to authorized recyclers.

Type of Waste	Quantity in TPA	Disposal & Management
to Tyre manufacturers HOWM Rules, 2016		

19.6.14 Public Consultation:

Details of advertisement given	To ensure widespread awareness, notifications were published in prominent local newspapers, namely Prabhat Khabar (Hindi) and The Hindustan Times (English), on April 24, 2025. Additionally, public announcements were made through loudspeakers.
Date of public consultation	May 2025.
Venue	The hearing took place at the predetermined venue, Rajkiye Madhya Vidyalaya, Bhadani Nagar, Ramgarh.
Presiding Officer	Additional Collector, Revenue Department nominated by the Deputy Commissioner, Ramgarh.
Major issues raised	<ul style="list-style-type: none"> • Employment & Livelihood • Environmental Concerns (Air Pollution & Agriculture) • Public Health & Safety • CSR & Social Development • Infrastructure & Basic Amenities • Public Hearing Process & Participation

Action Plan as per OM dated 30.09.2020

S.N.	Area of Concern	Action Taken	Budget (INR)	1 st Year	2 nd Year	3 rd Year
1	Employment Opportunities for Local Youth	<ul style="list-style-type: none"> ▪ Conduct skill assessment survey in Lapanga, (Mahuatola and Chaukiyatand), Saki and Hehal ▪ Provide vocational training (e.g., welding, electrical work, machine operation) with certified ITIs. ▪ Prioritize local hiring for non- 	<ul style="list-style-type: none"> ▪ Vocational /Skill based Training of (200 youth, @Rs.18,000 each candidate): Rs. 3,600,000 ▪ Total: Rs.36,00,000 	Rs 12,60,000/- for a batch of 70 students	Rs 11,70,000/- for a batch of 65 students	Rs 11,70,000/- for a batch of 65 students

S.N.	Area of Concern	Action Taken	Budget (INR)	1 st Year	2 nd Year	3 rd Year
		technical and semi-skilled roles post-expansion.				
2	Support for Education and Sports Activities (Library, Sports)	<ul style="list-style-type: none"> - Community library in Lapanga with e-learning modules and computers. - Annual sports programs (cricket, football) with coaching, equipment, and tournaments. 	<ul style="list-style-type: none"> - Library setup: Rs.15,00,000 - Sports programs: Rs.5,00,000. - Total: Rs. 20,00,000. 	Rs. 15,00,000 Lakhs for Library set up. Rs. 200,000 for sports program	Rs. 200,000/- for Sports Program	Rs.100,000/- for Sports Program
3	Enhanced Environmental Protection & Pollution Control	<ul style="list-style-type: none"> - Upgrade existing bag filters and ESPs to reduce PM emissions. - Increase water sprinkling to thrice daily on transport routes with automated sprinklers. - Install real-time air quality monitoring (PM2.5, PM10). - Plant 1,500 native trees as a green buffer. - Conduct quarterly soil and water testing to monitor pollution impact on agriculture. 	<ul style="list-style-type: none"> - Covered under EMP Budget 			
4	Camps for Agriculture Improvement and	<ul style="list-style-type: none"> - Organize camps to aware and train farmers on Good 	<ul style="list-style-type: none"> - Total: Rs.15,00,000 	Rs. 5,00,000/- Lakh	Rs.5,00,000/- Lakh	Rs.5,00,000/- Lakh

S.N.	Area of Concern	Action Taken	Budget (INR)	1 st Year	2 nd Year	3 rd Year
	Veterinary Camps	agricultural Practices (GAP). ▪ Conduct veterinary camps for livestock health checkups and conduct vaccination drive for livestock in the villages against different diseases.				
5	Health Camps & Ambulance Services	▪ Donation of an ambulance for Lapanga Gram Panchayat. ▪ Organize quarterly health camps focusing on respiratory ailments, with spirometry tests and mobile X-ray units.	▪ Ambulance: Rs.13,00,000 ▪ Health camps (2/year, Rs.1,00,000 each): Rs.2,00,000/year ▪ Total: Rs.16,00,000	Rs 13,00,000Lakh for donation of Ambulance Rs. 200,000/- lakh for health camp	Rs. 200,000/- lakh for health camp	Rs. 200,000/- lakh for health camp
7	Solar Street Lights	▪ Install 100 solar-powered street lights (10W LED, lithium-ion batteries with Pole) in Lapanga, Chaingara, Hehal and Sirka villages.	▪ Solar lights (100 units, Rs.25,000 each): Total: Rs.25,00,000	Rs 875000/- for installation of 35 Solar Street Lights	Rs.8,25,000 for installation of 33 Solar Street Lights	Rs. 8,00,000/- for installation of 32 Solar Street Lights
	Total (Rs)	1,12,00,000 (One Crore Twelve Lakh Only)				

19.6.15 Existing capital cost of project was 132.49 Crores. The capital cost of the proposed project is Rs. 47.85 Crores and the capital cost for environmental protection measures is proposed as Rs 804 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 93 Crores. The employment generation from the proposed project / expansion is 300. The details of cost for environmental protection measures are as follows:

Details of EMP budget as per previous EC letter				Proposed EMP budget as per planned expansion		
S. N.	Item Description	Existing Capital investment (Rs Lakhs)	Recurring Cost (Rs Lakhs)	Item Description	Capital investment (Rs Lakhs)	Recurring Cost (Rs Lakhs)
1	Air Pollution Control Measures	525.0	40.0	Air Pollution Control Measures	550	50
2	Water Pollution Control Measures	25.0	4.0	Water Pollution Control Measures	25	11
3	Noise Pollution Control Measures	2.0	Included in point 1 above	Noise Pollution Control Measures	12	04
4	Greenbelt Development	13.5	5.0	Greenbelt Development	20	06
5	Rain Water Harvesting	8.0	2.0	Waste Management	49	22
6	Fire Fighting and Safety measures	20.0	10.0	Address to the public consultation	112	0
7	Address to the public consultation	95	0	Need based assessment	36	0
	Total	688.5	61	Total	804	93

19.6.16 Existing greenbelt has been developed in 1.93 ha area which is about 33% of the total project area of 5.82 with total sapling of 500 Trees. The proposed expansion consists of two sections— In Part A (existing plant area), the total land area is 8.239 hectares, of which 2.1387 hectares (25.95%) is developed as green belt, while 6.1003 hectares is occupied by industrial facilities and other uses. In Part B (proposed expansion area), the total area is 3.194 hectares, with 2.7149 hectares (85%) dedicated to green belt development and 0.4791 hectares utilized for industrial and associated activities. The proposed expansion project will develop and maintain a green belt over 42.46% of the total plot area, which is significantly higher than the minimum requirement of 25% stipulated under the MoEF&CC OM on Revised Green Belt Criteria. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 3500 saplings will be planted and nurtured in 4.8536 hectares in 5 years.

19.6.17 It is reported that there is no violation under EIA, 2006/court case/show cause/direction related to the project under consideration.

Certified compliance report from Regional Office

19.6.18 The Status of compliance of earlier EC was obtained from Regional Office, Ranchi *vide* letter no. F. NO. 103-554/ROR-2020/694 dated 18th November 2024 in the name of M/s. Sri Venkatesh Iron & Alloys (India) Ltd. The Action taken report regarding the partially/non-complied condition was

submitted to Regional officer MoEF&CC dated 19.12.2024. MoEF&CC (RO), Ranchi Jharkhand evaluated the same and has issued letter no. 103-554/ROR-2020 dated 01 December 2025. The details of the observations made by RO in the report dated 01.12.2025 along with its re-assessment / present status as furnished by the PP is given as below:

S.N.	Non-compliances details	Observation of RO (abridged)	Re-assessment by RO / Response by PP
1	Partially complied	PP has stated that it has submitted an application to MOEFCC for EC corrigendum for correcting name.	The corrigendum to the Environmental Clearance has now been formally obtained from MoEF&CC. The EC (Corrigendum) has been issued vide File No. J-11011/417/2017-IA.II(I) dated 25.08.2025.
2	Partially complied	The PP has stated that dolochar is being stored within the premises for use in the captive power plant, once it is complete, and which is currently still under construction.	The installation works of the captive power plant have been expedited on priority. The plant is now in an advanced stage of implementation and is expected to be fully commissioned within six (6) months. Upon commissioning, the entire quantity of dolochar will be scientifically utilized as intended, ensuring proper resource utilization and compliance with EC conditions.
3	Partially complied	Plantation is yet to take the form of green belt.	A dense plantation program has already been undertaken both within the plant premises and on nearby available land. Native and fast-growing species have been planted with proper spacing and maintenance. The plantation is being regularly nurtured, and it is expected that within the next couple of years, it will mature into a well-defined, dense green belt, fulfilling the intent of EC conditions.
4	Partially complied	In Environment Audit Report, a list of corrective measures has been proposed by the third party upon the PP.	All corrective measures recommended in the Third-Party Environmental Audit Report as well as those highlighted in the Monitoring Report dated 30.10.2024 have been fully implemented. Necessary operational, environmental and safety improvements have been incorporated to strengthen overall environmental management. The latest Environmental Audit Report, along with documentary evidence and records of corrective actions taken, shall be submitted along with the forthcoming EC compliance report for review and record.
5	Partially complied	CER Report submitted is incomplete as it contains only CSR.	The company has been actively involved in comprehensive Community Environment Responsibility (CER) initiatives, including

S.N.	Non-compliances details	Observation of RO (abridged)	Re-assessment by RO / Response by PP
			healthcare support, drinking water facilities, plantation activities, road maintenance, purchase of ambulance, installation of solar street lights, construction of toilets, and distribution of ceiling fans, speakers, shelves, etc., in nearby schools. The need to further structure and expand CER-specific interventions is acknowledged, and the same is being strengthened.
6	Partially complied	Other Parameters as desired in EC gen. cond. II (iii) such as PM _{2.5} , SO ₂ , NO _x , are not being monitored in CAAQMS. Nil CAAQMS station have been installed outside project premises.	At present, SPM, PM ₁₀ and SO _x are being continuously monitored through the installed CAAQMS. The monitored data sheets are submitted. Further, in compliance with EC General Condition II (iii), the company commits to installation of an additional ambient CAAQMS station outside the project premises for monitoring of PM _{2.5} , SO ₂ and NO _x immediately after obtaining the required approvals and permissions, as the proposed location lies outside the project boundary. The installation will be taken up at the earliest possible time thereafter, in consultation with the concerned regulatory authorities.
7	Partially complied	Manually monitored data for stacks has not been submitted.	The manual stack monitoring data for stacks have now been compiled and are submitted for verification and record.
8	Partially complied	STP is being installed as stated and this was observed to be under construction during monitoring.	Installation of the Sewage Treatment Plant (STP) is in progress and is planned to be completed within the next two (2) months. Upon commissioning, treated water will be reused within the premises, ensuring zero discharge and improved water management.
9	Partially complied	PP has initiated feasibility study for roof top solar panels as stated. But roof top solar panel are yet to be installed.	In view of the proposed project expansion, the company has planned installation of rooftop solar panels of appropriate capacity during the expansion phase. The installation is targeted to be completed within the next twelve (12) months, reinforcing the company's commitment towards renewable energy adoption.
10	Partially complied	PP have stated that Heat Stress Analysis for workers has been planned in future.	Heat Stress Analysis for workers has been planned and will be carried out soon positively by 30/01/2026. In the interim, preventive and protective occupational health measures such as provision of adequate drinking water, shaded rest

S.N.	Non-compliances details	Observation of RO (abridged)	Re-assessment by RO / Response by PP
			areas, regulated work–rest cycles, ventilation improvement and mandatory use of PPE are being implemented to safeguard worker health. The Heat Stress Analysis report shall be submitted upon completion.
11	Partially complied	PP has submitted incomplete CREP compliance report. The CREP Compliance report submitted mentions only CSR.	The company has been actively involved in comprehensive Community Environment Responsibility (CER) initiatives, including healthcare support, drinking water facilities, plantation activities, road maintenance, purchase of ambulance, installation of solar street lights, construction of toilets, and distribution of ceiling fans, speakers, shelves, etc., in nearby schools. The need to further structure and expand CER-specific interventions is acknowledged, and the same is being strengthened. Supporting documents are enclosed a
12	Not Complied	PP has yet not created its website to upload EC and other reports	At present, all EC compliance reports and monitored data are regularly uploaded on the Parivesh Portal of MoEF&CC, ensuring transparency and public access as per statutory requirements. The company has also decided to develop its official website within the next two (2) months, where EC letters, compliance status and monitoring data will be regularly updated.

19.6.19 Compliance on Applicability of Ministry's OMs

S. No.	MoEFCC Circular/OM			Applicability/Compliance
	Date	Circular Number	Short Description	Status
1.	08/06/2022	IA3-22/10/2022-IA.III [E 177258]	Requirement and validity of Certified Compliance Report (CCR) issued by the IROs of MoEF&CC/MS of SPCBs/ ROs of CPCB-reg.	Complied. The CCR was issued by the IRO, MoEF&CC Ranchi vide letter dated 18.11.2024. A Review Report on the Action Taken Report (ATR) was subsequently received on 01.12.2025.
2.	07/10/2014 & 20/02/2025	22-76/2014–IA.III	Status of land acquisition w.r.t. project site while considering the case	Complied. The Project Proponent (PP) has acquired 11.434 ha of land through registered sale deeds/lease documents. A

S. No.	MoEFCC Circular/OM			Applicability/Compliance Status
	Date	Circular Number	Short Description	
			EC under EIA Notification, 2006.	Notarized Land Statement has been submitted.
3.	14/02/2022	22-39/2020-IA.III	Guidelines for siting industries which are in close proximity with the River - reg.	The Damodar River is ~1.15 km North of the site. The Dhobdhab Nala, a distributary stream of the Damodar River, flows in a south-eastern direction just outside the project boundary (~10 m)
4.	09/09/2011 & its subsequent amendments	J-11013/41/2006-IA.II(I)	Consideration of Projects for grant of environmental clearance under EIA Notification 2006 which involve forestland - further clarification-regarding	Not Applicable. Entire project area is Non-forest land.
5.	24/12/2010	J-11013/41/ 2006-IA.II(I)	Consideration of Integrated and Inter-linked projects-Procedure	Not Applicable. There is no Interlinked/Integrated project.
6.	17/05/2022	FC-11/119/2020-FC	Clarification on Requirement of Various Environmental and Forest Clearances for Project/Activity in Eco-Sensitive Zone and Other Such Areas outside Protected Area - regarding.	Not Applicable. There is no National Park, ESZ, ESA, Wildlife Sanctuary, Elephant corridor, Tiger Reserve, Biosphere Reserve <u>within 10 Km radius</u> of the project.
7.	31/10/2019, 30/12/2019 & 05/07/2022.	22-23/2018-IA.III (Pt)	Compliance of Hon'ble NGT order dated 19.08.2019 (published on 23.08.2019) in O.A. No. 1038 2018 - reg. - Critically Polluted Area/Severely Polluted a. whether project located in CPA/SPA	Not Applicable. The project site is not located in CPA/SPA/OPA etc.

S. No.	MoEFCC Circular/OM			Applicability/Compliance Status
	Date	Circular Number	Short Description	
			b. Distance of project from CPA/SPA c. whether Additional environmental safeguards have been proposed	
8.	08/06/2022	IA3-22/10/2022-IA.III [E 177258]	Standardizing the validity of baseline data and public consultation reports for submission of proposal within the validity period of Terms of Reference (ToR) under the provisions of EIA Notification, 2006-reg.	Complied. Baseline data was collected from 1st October 2024 to 31st December 2024 (Post-Monsoon season). The data is within the permissible 3-year validity period for the submission of the Final EIA report.
9.	30/09/2020 & 25/02/2021	22-65/2017-IA.III	Deliberation on the commitments made by project proponent and requirements to address the concerned raised during the public consultation reg.	Complied. The Public Hearing was conducted on 24.05.2025 at Rajkiye Madhya Vidyalaya, Bhadani Nagar, Ramgarh. The proceedings and commitments made during the PH are incorporated in the Final EIA.
10.	30/09/2011	J-11013/77/2004-IA-II(I)	Accreditation of EIA Consultant by Quality Council of India (QCI) / National Accreditation Board of Education and Training (NABET)	Complied. M/s Rian Enviro Pvt. Ltd. NABET Registered List of Accredited Consultant Organizations/ NABET/EIA/24-27/RA 0368 valid up to 11.09.2027)

19.6.20 **Compliance Statement specified under ‘Clause -9, Chapter 3 Criteria For Establishment of Industrial Plant’ of the G.S.R 85(E) dated 30th January, 2025**

Sn	Clause-9, Chapter 3 (G.S.R 84(E) & 85(E))	Compliance
1.	Restrictions on establishing an industrial plant based on technological and scientific developments to protect sensitive areas like national parks, sanctuaries, wetlands, and archaeological monuments.	Complied There are no National Parks, Sanctuaries, wetlands and archeological monuments within 10 Km. radius of the plant site.
2.	Industrial plant must comply with criteria set by Central Government, State Government, or Union Territory Administration.	Noted for compliance
3.	While establishing an industrial plant, the following minimum distance shall be maintained:	
3(a)	From the nearest boundary of surface water body (flood plain/HFL/Red line) as per revenue records in case of industrial plant of:	
	3(a) (i): Red category, Beyond 500 Metres	The Damodar River is located approx. 1.15 km North of the site. The Dhobdhab Nala, a distributary stream of the Damodar River, flows in a south-eastern direction just outside the project boundary (~10 m) A NOC from the Water Resources Department is under process for the nearby seasonal Dhobdhab nallah
3(b)	From settlements, educational institutes, worship places, archaeological monuments, national parks, reserve forests, heritage sites, in case of industrial plant of:	
	3(b) (i): Red Category, beyond Five hundred meters;	Settlement
		Chokiya Tand is the nearest habitation at 0.18 km. Note: The plant is an expansion of an existing unit established in 2005
		Educational Institutes
		None within 500 m Nearest School/College is: Gyan Jyoti Kendra School, Chikor, Approx. 2.54 Km towards SW direction.
		Worship Places
		None within 500 m Nearest place of Worship is • Chaingada Temple is approx. 1.50 km NW
		Archaeological monuments
		None within 500 m
		National Parks
		None within 500 m
		Reserve Forests
		None within 500 m

Sn	Clause-9, Chapter 3 (G.S.R 84(E) & 85(E))	Compliance
	Heritage Sites	None within 500 m
3(c)	The State Board shall ensure compliance with all applicable laws, rules, regulations, and notifications	-
3(d)	Natural or storm drains passing through the industrial plant location shall not be disturbed.	There are no natural or storm water drains passing through the proposed plant location. The Dhobdhab Nala, a distributary stream of the Damodar River, flows in a south-eastern direction just outside the project boundary (~10 m) and will remain undisturbed.

Written submission by the PP:

- 19.6.21 During the meeting, based on the deliberations made by the EAC, the project proponent through email dated 13.01.2026 submitted the following information:

The land for the proposed expansion project belongs to M/s Sri Venkatesh Iron & Alloys (India) Limited. The project involves a substantial area expansion, wherein the total plot area is being increased from 5.82 hectares to 11.434 hectares, by addition of 5.614 hectares.

The total plant area of the project, including existing (Part A) and proposed expansion (Part B), is 11.433 hectares (114,330 sqm). Out of this, 6.5794 hectares (65,794 sqm) is utilized for industrial facilities, utilities, and allied infrastructure. A cumulative area of 4.8536 hectares (48,536 sqm) is earmarked for green belt development, accounting for 42.45% of the total plant area, which is significantly higher than the prescribed minimum requirement.

In Part A (existing plant area), the total land area is 8.239 hectares, of which 2.1387 hectares (25.95%) is developed as green belt, while 6.1003 hectares is occupied by industrial facilities and other uses.

In Part B (proposed expansion area), the total area is 3.194 hectares, with 2.7149 hectares (85%) dedicated to green belt development and 0.4791 hectares utilized for industrial and associated activities.

The proposed expansion project will develop and maintain a green belt over 42.46% of the total plot area, which is significantly higher than the minimum requirement of 25% stipulated under the MoEF&CC OM on Revised Green Belt Criteria.

Deliberations by the Committee

- 19.6.22 The Committee noted the following:

1. The instant proposal is for expansion in production of sponge iron from 1,20,000 TPA to 1,80,000 TPA by adding of 2x100 TPD DRI unit and change in Technology from Induction Furnaces to Submerged Arc Furnaces (SAF) (12MVA*2) for the production of Fe-Si/ Fe-Mn/ Si-Mn/ Pig Iron- 64,000 TPA and additional 4 MW CPP (WHRB).
2. The existing project established its existing sponge iron plant in 2005 with a capacity of 400 TPD (4 × 100 TPD kilns) after obtaining CTE from the Jharkhand State Pollution Control Board

vide Ref. No. N-432 dated 16.07.2005. Further, Environmental Clearance was obtained vide F. No. J-11011/417/2017-IA.II(I) dated 24.01.2020 for expansion by installation of induction furnaces, billet caster, captive power plant, and briquette plant. The company presently holds a valid CTO from JSPCB vide Ref. No. JSPCB/HO/RNC/CTO/17469793/2023/2121 dated 27.12.2023 for the same capacity

3. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
4. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
5. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
6. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
7. The Committee noted that the project is an expansion proposal and ToR to the project was granted before the notification G.S.R 85(E) dated 30th January, 2025. Accordingly, it reviewed the mitigation measures proposed by the PP w.r.t. the proposed site and nearby sensitive receptors, and found the same as adequate. The EAC also reviewed the compliance statement submitted by the project proponent regarding aspects such as land acquisition status / presence of streams or nallahs within the site / validity of baseline data / validity of the Certified Compliance Report / validity of the Public Hearing (PH), among other relevant factors. As the proposal is for expansion of existing project, upon examination, the Committee found the submission satisfactory for further appraisal of the proposal.
8. PP submitted that the total area is 11.434 ha (Existing-5.82 ha & Additional-5.641) is completely under the possession of the company.
9. Village- Chokiya Tand is at a distance of 0.18 km along with other sensitive areas within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
10. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby

villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.

11. **The Committee noted that Dhobdhab nala is located at an approximate distance of 0.01 km from the project site. The PP informed that the project site does not encroach upon the natural drainage and that adequate buffer distance has been maintained. The Committee took note of the submission that the matter has been examined by the Water Resources Department (WRD), Jharkhand, and that the Office of the Executive Engineer, WRD, Jalpath Anchal, Hazaribagh, vide Memo No. 816 dated 23.12.2025, has assessed the proposal based on 1 in 25 years flood plain data and recommended the proposal for further necessary action. However, the Committee noted that the NOC obtained by PP is relevant to flood plain of River(s), whereas the requirement is to establish that PP has not encroached upon the nallah, and its existing & proposed activities will obstruct the natural flow of the nala. Accordingly, a fresh NOC may be uploaded on the PARIVESH portal.**
12. Also there are other water bodies within 10 Kms. radius of the project site. The EAC opined that robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
13. The water requirement for the proposed project is estimated to be 2,444 m³ (one-time) and 717 KLD (per day) after expansion. The permission to draw 0.604 MCM/year (1,655 m³/day) of surface water from the Damodar River which has been obtained from the Central Water Commission via letter No. 887-93 dated 01.07.2019. The EAC recommended that the PP shall secure required approval for the total water requirement from the competent authority.
14. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and noted that PM_{2.5} and PM₁₀ are reported high. The EAC opined that PP shall undertake stringent measures to minimise the levels of PM₁₀ and PM_{2.5}.
15. The Committee also deliberated on the public hearing issues and the action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
16. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.
17. It is reported that there were 08 Schedule I species found in the study area. The wildlife conservation plan has been prepared and submitted to the DFO (Wildlife), Ramgarh, Jharkhand. The EAC opined that the recommendations of the approved plan shall be strictly implemented in consultation with the State Forest Department.

18. PP reported that The proposed expansion project of M/s Sri Venkatesh Iron & Alloys (India) Limited involves an increase in the total plot area from 5.82 hectares to 11.434 hectares through the addition of 5.614 hectares. The combined plant area, including the existing and proposed expansion areas, is 11.433 hectares, of which 6.5794 hectares is utilized for industrial facilities and allied infrastructure, while 4.8536 hectares, constituting about 42.45% of the total plant area, is earmarked for green belt development, exceeding the prescribed minimum requirement. In the existing plant area, 25.95% of the land is developed as green belt, whereas in the proposed expansion area, about 85% of the land is allocated for green belt development. Overall, the project commits to developing and maintaining a green belt over more than 42% of the total plot area. Total no. of 3500 saplings will be planted and nurtured in 4.8536 hectares in 5 years. The EAC deliberated on the revised greenbelt action plan and is of the opinion that greenbelt shall be developed within a year and maintained as committed and in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025.
19. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found it satisfactory.
20. **The Committee deliberated upon the certified compliance report of IRO, MoEF&CC and along with the ATR submitted by the project proponent along with Review report on Action Taken from RO MoEF&CC dated 01.12.2025. The EAC noted that there are 11 partially complied conditions and 01 not complied condition. The IA CMD has already initiated action for compliance of existing ECs. Therefore, EAC opined that the project proponent needs to obtain Action Closure of IA-Compliance & Monitoring Division of MoEF&CC.**
21. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
22. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
23. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

- 19.6.23 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal under the provisions of EIA Notification, 2006 for grant of Environment Clearance **subject**

to uploading of (a) written submission on PARIVESH portal, (b) Action Closure Report from IA-CMD, MOEF&CC on the CCR and (c) specific NOC/ certification from the competent authority clearly stating that the project does not encroach upon or obstruct the natural flow of the nala. The EAC categorically noted that the recommendation to grant EC is technical in nature under the provisions of the EIA Notification 2006, and subject to the fulfilment of commitments made by the PP to secure all the permissions/ approvals/ consents from Central/ State Authorities, as may be required. The recommendation does not create an obligation for authorities that handle issues related and relevant to construction and operation of the project under other independent procedures/ statutes, including the provisions stipulated in the Land Acquisition (R&R) Act, 2013. The specific and general conditions are mentioned below:

A. Specific Condition:

- i. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- ii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iii. The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iv. Village- Chokiya Tand is at a distance of 0.18 km along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
- v. Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
- vi. Dhobdhab nala is located at an approximate distance of 0.01 km along with other water bodies within 10 Kms. radius of the project site. Robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- vii. The water requirement for the proposed project is estimated to be 2,444 m³ (one-time) and 717 KLD (per day) after expansion. The permission to draw 0.604 MCM/year (1,655 m³/day) of surface water from the Damodar River which has been obtained from the Central Water Commission via letter No. 887-93 dated 01.07.2019. PP shall secure required approval for the total water requirement from the competent authority.
- viii. Greenbelt shall be developed (within a period of 1 year) and maintained in the project area as committed and in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-

275538) dated 29.10.2025. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

- ix. The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at (<https://merilife.nic.in>)
- x. All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented, which is amounting to Rs. 1.12 Crores. The action plan shall also cover activities related to (i) promotion of environmental education and awareness (including green skills), and (ii) sub-plan to address the vulnerable sections (*such as the elderly, children, pregnant women, persons with disabilities, and the terminally ill*). An institutional mechanism shall be developed for monitoring the implementation of the commitments made, which shall also manage and address public grievances. The progress of implementation of PH Action plan and grievance redressal shall be submitted regularly to the Regional Office of MoEF&CC.
- xi. PP shall implement the skill development programs, in alignment with relevant Government initiatives/ programmes (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC.
- xii. PP shall Install CO sensors with alarms at strategic locations in the Plant.
- xiii. PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.
- xiv. PP shall establish a dedicated in-house Research & Development (R&D) cell aimed at identifying, evaluating, and implementing emerging clean technologies. The focus of this cell will be on enhancing process efficiency, minimizing waste generation, and promoting circular economy practices within the plant operations. The effectiveness of the R&D initiatives shall be reviewed periodically, and outcomes contributing to sustainability shall be documented and reported
- xv. The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded, compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends. A comparative study of change in agriculture yield during the past ten years may be undertaken for 3km radius.

- xvi. The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.

B. General Conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
- ii. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area.
- iii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- ix. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.

- x. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
- xi. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
- xiii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
- xiv. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
- xv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
- xvi. Water Sprinklers/ Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
- xvii. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
- xviii. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- xix. Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
- xx. The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
- xxi. The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
- xxii. Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants.
- xxiii. No Ferro-chrome production shall be carried out without prior Environmental clearance from MOEF&CC.
- xxiv. During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
- xxv. The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- iv. Water meters shall be provided at the inlet to all unit processes in the plants.
- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
- vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- ix. Air Cooled condensers shall be used in the captive power plant.

IV. Noise monitoring and prevention

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- iii. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

V. Energy Conservation measures

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.
- iii. The project proponent shall provide waste heat recovery system on the DRI Kilns.
- iv. The dolochar generated shall be used for power generation.
- v. Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
- vi. The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.
- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iv. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <https://cpcb.nic.in/technical-guidelines-3/>. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- vi. Solid waste utilization
 - a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
 - b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
 - c. Used refractories shall be recycled as far as possible.
- vii. SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.
- viii. Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
- ix. Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
- ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the

- projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
 - vi. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
 - vii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
 - viii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
 - ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
 - x. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
 - xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
 - xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
 - xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 - xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 - xvi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
 - xvii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Consideration of Amendment in EC Proposal

Agenda No. 19.7

- 19.7 Amendment in Environmental Clearance (EC) for installation of 0.8 MTPA Slag Grinding unit and new facilities related to value addition and technological upgradation within the existing 1.3 MTPA Integrated Steel plant premises by M/s. JSWSL Salem Works, located at village Pottaneri and M. Kalipatti, Mecheri, Taluk Mettur, District Salem, Tamil Nadu- Consideration of Amendment in EC.**

[Proposal no.: IA/TN/IND1/562262/2025: File No. IA-J-11011/281/2006-IA.II (I)]

[Consultant: Mecon Limited; Valid upto: 09.02.2027]

- 19.7.1 M/s JSWSL Salem Works has made an online application vide proposal no. IA/TN/IND1/562262/2025 dated 19.12.2025 along with the application in prescribed format- Form 4 (CAF, Form – I Part A, B and C) and Addendum EIA report seeking amendment in EC obtained from MoEF&CC vide File No. IA-J-11011/281/2006-IA.II(I) dated 10.02.2020 & EC Splitting letter dated 20.05.2025 w.r.t exemption of certain General Conditions.

Details submitted by Project proponent

- 19.7.2 The project was earlier granted environment clearance vide F. No. J-11011/281/2006-IA.II(I) dated 10.02.2020 for Installation of 0.8 MTPA slag grinding unit and new facilities related to value addition and technological upgradation within the existing 1.3 MTPA Integrated Steel Plant premises located at Mecheri, Taluk Mettur, District Salem, Tamil Nadu under the provisions of para 7(ii) of the EIA Notification, 2006 in the name of M/s. JSW Steel Works. JSWSL Salem Works obtained splitting & transfer of EC of the existing 0.8 MTPA Slag Grinding Unit to JSW Cement Ltd. and obtained EC Splitting letter F. No. J-11011/281/2006-IA.I(I) dated 20.05.2025 for Splitting of EC for the existing 0.8 MTPA Slag Grinding Unit of 1.3 MTPA Integrated Steel Plant between JSW Steel Limited Salem Works and JSW Cement Limited. The company obtained CTE vide order number 2006131408047 dated 18.11.2020 and CTO vide Consent No. 2307249391459 dated 23/01/2023 from Tamil Nadu Pollution Control board (TNPCB) valid upto 31.03.2026.
- 19.7.3 The instant proposal is for seeking Amendment in EC obtained from MoEF&CC vide File No. IA-J-11011/281/2006-IA.II (I) dated 10.02.2020 and EC Splitting letter dated 20.05.2025 for the exemption of certain General Conditions of EC without any increase in Steel production capacity. The details are as follows along with technical justification:

Sl. No.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
B. General Conditions			
II. Air quality monitoring and preservation			
1	xv. Land-based APC system shall be installed to control coke pushing emissions.	Observation: Considering the age of the non-recovery coke oven, there are technical constraints	Revised EC Condition – The project proponent shall adopt effective measures to control the coke pushing emissions

Sl. No.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
		<p>and operational limitations for installing a land-based APC system.</p> <p>Remarks: Since, the unit has installed a Non-Recovery Coke Oven plant, installation of Land based APC is technically not feasible at this stage, the condition may be exempted.</p>	<p>for non-recovery type Coke Ovens.</p> <p>Compliance: Not applicable, as the existing coke oven plant is non-recovery type. However, the PP has installed dedicated mobile dedusting system in both charging/pusher cars.</p> <p>Remarks: Request for exemption of land-based APC system and revision in the condition. As the existing Coke Oven Plant is non-recovery type Land-based APC systems not applicable and are mainly applicable to recovery type coke ovens to control the coke pushing emissions, where ovens will be operated under positive pressure and vertical loading. JSWSL installed coke oven plant is non-recovery type in 2007 with small capacity 0.50 MTPA. These are heat recovery coke ovens which operate in high negative pressure to suck hot gases for heat recovery with no significant emissions. Hence process design does not demand installation of Land-based APC system in to the existing non-recovery type coke ovens. However, a dedicated localized dedusting system has been installed in both charging/pushing cars. (02 Nos.).</p>

Sl. No.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
2	xvi. Monitor CO, HC and O ₂ in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	<p>Observation:</p> <ol style="list-style-type: none"> 1. Monthly once manual readings are taken for CO, CO₂ and O₂, and the same has been recorded in the log book. 2. Real time flue gas O₂ is being monitored and the values in the range of 5 to 6%. <p>Based on CIMFR advice, the PP has monitored HC in the flue gas of WHRB exit and found the content is insignificant. CIMFR recommends that the PP to regularly monitor HC along with other gases.</p> <p>Remarks:</p> <p>Even though the Coke Oven is Non-Recovery there is a possibility to monitor the parameters at WHRBs end. The EC condition may be retained and to be complied.</p>	<p>Revised EC Condition -</p> <p>Monitor CO, HC and O₂ in flue gases of Waste Heat Recovery Boilers for non-recovery type Coke Ovens.</p> <p>Compliance: The site is installed with Non-Recovery Type Coke Oven and it is informed that the requirement of monitoring of HC, CO and O₂ were intended for recovery type of coke ovens where in the cross over leakage exists and their coke oven plant is non-recovery type. However, Monitoring of CO and O₂ is done in WHRBs where the COP gas is directly coupled for heat recovery.</p> <p>Remarks: Request for revision in the condition. The existing Coke Oven plant is of non-recovery type and heat for carbonisation is provided by the radiation heat by burning of evolved gases from the bottom and top of the coal mass. Thus, the monitoring of these parameters is not applicable to heat recovery type coke ovens. However, based on CIMFR advice, JSWSL Salem has carried out monitoring of CO, HC and O₂ at WHRB flue gas emission, and found insignificant content.</p>

Sl. No.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
3	xvii. Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	<p>Observation: The existing coke oven battery is a non-recovery type coke oven battery; entire volatile matters generated during coke making is burnt into the coke oven. No coke oven gas collected from any of the oven in the coke oven battery.</p> <p>Remarks: Since, the unit has installed a Non-Recovery Coke Oven plant, Coke Oven gas cooling system not applicable and the condition may be exempted.</p>	<p>Revised EC Condition – Nil</p> <p>Compliance: Not applicable.</p> <p>Remarks: Request for exemption and removal of the condition, as the existing Coke Oven Plant is non-recovery type.</p>
4	xviii. In case concentrated ammonia liquor is incinerated, adopt high temperature incineration to destroy Dioxins and Furans. Suitable NOx control facility shall be provided to meet the prescribed standards.	<p>Observation: The existing coke oven battery is a non-recovery type coke oven battery. In this coke oven battery ammonia liquor is neither produced nor any concentrated ammonia liquor incinerated.</p> <p>Remarks: Since, the unit has installed a Non-Recovery Coke Oven plant, Coke Oven gas cooling system not applicable and the condition may be exempted.</p>	<p>Revised EC Condition – Nil</p> <p>Compliance: Not applicable.</p> <p>Remarks: Request for exemption and removal of the condition, as the existing Coke Oven Plant is non-recovery type.</p>
5	xxii. The project proponent shall install Dry Gas Cleaning Plant with bag filter for Blast Furnace and SMS converter.	<p>Observation: Blast Furnace: Considering the age of the installation and space and additional GHG emission, installation of dry GCP in BF#1 is not technically viable presently.</p> <p>SMS Converter: Converter not installed in JSWSL, Salem Works and</p>	<p>Revised EC Condition - The project proponent shall install Dry Gas Cleaning Plant with bag filter for Blast Furnace in case of expansion project.</p> <p>Compliance: Being partially complied.</p> <p>Remarks: Request for exemption of installation of</p>

Sl. No.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
		<p>also Water consumption and Power consumption will be higher in Dry GCP compared to the Wet GCP. Also, Treated Wastewater usage will come down due to the Dry GCP process and due to the area concern it is technically not possible to install.</p> <p>Remarks: Blast Furnace: The General Condition may be exempted or modified "In case of new installation of Blast Furnace Dry Gas cleaning system to be explored and installed.</p> <p>SMS Converter: As JSWSL, Salem not installed any converter in SMS the condition may be exempted.</p>	<p>Dry Gas Cleaning Plant with bag filter in the existing Blast Furnace#1 & SMS and revision in the condition.</p> <p>Blast Furnace: The existing steel plant consist of small capacity Blast Furnaces (BF#1 402 m3 with 0.367 MTPA & BF#2 650 m3 with 0.683 MTPA capacity). The BF#1 has been installed in the year 1998 with wet type gas cleaning system and BF#2 has been installed in 2007 with Dry type gas cleaning system.</p> <p>Steel Melting Shop: SMS converter not installed in the Salem works and there are 02 Nos. of EOFs (EOF#1 with the capacity of 0.64 & EOF#2 with the capacity of 0.62 MTPA) installed in 1998 and 2007 respectively. The operating temperature is very high (1400-1500°C) where by hot flue gas cleaning directly with Dry type is technically not possible and an indirect cooling system (Fresh water loss will be high) shall be provided to minimize the flue gas temperature into certain level (900-800°C) and subsequently atmospheric cooling also shall be done (where additional power requirement due to more flue gas volume) to maintain the flue gas temperature by</p>

Sl. No.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
			<p>200°C before connecting to Dry type gas cleaning system. Though it is waste heat, recovery system not feasible due to batch process and inconsistency (blowing and non-blowing operations) in flue gas volume. Also modification needs more space which is practically not available at the EOFs process area.</p> <p>As per the present EC dated 10.02.2020, there is no modification proposed in the EOF facilities.</p>
6	<p>xxiii. Dry quenching (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot coke.</p>	<p>Observation: Coke Dry Quenching (CDQ) is not feasible for the non-recovery coke ovens at JSW, Salem Works due to the lack of inert gas availability, significant carbon loss associated with CDQ, increased coke fines generation, and insufficient space for installation.</p> <p>Standard ToR for Coke Oven Plant [4(b)(ii)] for conducting EIA-EMP Study issued by MoEF&CC, CDQ system is applicable for Coke Oven plant of capacity 0.8 MTPA and above, whereas the coke oven plant capacity at JSWSL Works installed is 0.5 MTPA only.</p> <p>Remarks: The EC general condition may not be technically feasible and commercially</p>	<p>Revised EC Condition - Nil</p> <p>Compliance: Not applicable.</p> <p>Remarks: Request for exemption and removal of the condition. The installation of CDQ was taken up with the OEM and it is reported by them that installation of CDQ within the existing capacity of 0.5 MTPA Coke Oven (non-recovery type) is not technically feasible and viable. Furthermore, as per the Special Condition No. 6 of Pg. No. 11/11 of Standard ToR for Coke Oven Plant [4(b)(ii)] for conducting EIA-EMP Study issued by MoEF&CC, it is clearly stated that installation of CDQ system is applicable for Coke Oven plant of capacity 0.8 MTPA and above. Hence,</p>

Sl. No.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
		viable (due to the capacity) to implement in JSWSL, Salem. The general condition may be exempted.	the condition is not applicable.
III. Water quality monitoring and preservation			
7	<p>iii. The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time.</p>	<p>Observation: JSWSL, Salem works is operating a 0.5 MTPA capacity Non-Recovery Type Coke Oven where dedicated ETP not applicable to the Coke Oven and the part of the condition not applicable to JSWSL, Salem Works.</p> <p>No sponge iron plant is installed in JSWSL, Salem works.</p> <p>Effluent generated from the CPP is neutralized and sent to steel plant Guard Pond for further treatment and reuse at steel plant.</p> <p>Remarks: Since JSW installed non-recovery coke oven, the condition to provide the ETP for coke oven and by product to meet standards prescribed in G.S.R 277 (E) dated 31st March 2012 is not applicable for COP (NR). The part (a) of the general condition may be exempted.</p> <p>G.S.R 414 (E) dated 30th May 2008 Not applicable to M/s JSWSL, Salem. The part of the General Condition may be exempted.</p>	<p>Revised EC Condition - The project proponent shall ensure the wastewater treatment facility to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel) and meet the standards prescribed in S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plant) as amended from time to time.</p> <p>Compliance: The Coke Oven plant installed at the facility is non-recovery type and hence the condition is not applicable to PP.</p> <p>The PA has not installed Sponge iron plant in the existing plant.</p> <p>As per the latest CTO of CPPII dated 29.04.2022. Thermal Power Plant Wastewater is sent to Steel plant guard pond for treatment and reuse in the steel plant.</p> <p>Remarks: Based on the advices of CIMFR, Request for partial removal of provision of ETP for - i) coke oven and by-product to meet the standards prescribed in</p>

Sl. No.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
		S.O. 3305 (E) dated 7th December 2015 is applicable to JSWSL, Salem. The condition may be retained.	G.S.R. 277(E) dated 31st March 2012 (Integrated iron & Steel) ETP was not anticipated, as the existing coke oven plant is non-recovery type and ii) Request for exemption and removal of the condition-provisions of G.S.R. 414 (E) dated 30th May 2008 (Sponge Iron) are not applicable also, as the plant configuration does not include any Sponge Iron plant.
8	x. Treated water from ETP of COBP shall not be used for coke quenching.	Observation: JSWSL, Salem works installed a Non-recovery coke oven plant and no COBP has been installed. Remarks: Since JSW installed non-recovery coke oven, the EC general condition is not applicable. The general condition may be exempted.	Revised EC Condition - Nil Compliance: Not applicable, as the existing coke oven plant is non-recovery type. Remarks: Request for exemption and removal of the condition, as the existing Coke Oven Plant is non-recovery type.
V. Energy Conservation measures			
9	i The project proponent shall provide TRTs to recover energy from top gases of Blast Furnaces.	Observation: The existing Blast Furnace capacities of the steel plant are small, where the gas pressure is not sufficient to provide TRT. Remarks: Since JSW installed small capacity BF's, the EC general condition is technically not feasible for implement. The	Revised EC Condition - Nil Compliance: The capacity of the existing blast furnaces (BF#1 – 402 m3 and BF#2 – 650 m3) are very small and operating with low top gas pressure (< 1.3 bar). Hence, installation of TRT is not technically feasible, since the operating design gas pressure

Sl. No.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
		general condition may be exempted or modified as “In case of installation of new Blast Furnace the PP shall explore to install TRT for power generation”.	is lower than the design requirement. Remarks: Request for exemption and removal of the condition as it is not applicable. The capacity of the existing blast furnaces (BF#1 – 402 m3 and BF#2 – 650 m3) is very small and operating at low top gas pressure (< 1.3 bar). The installation of TRT was taken up with the OEM and it is reported by them that the installation of TRT is not technically feasible and viable, since the operating design gas pressure is low.
10	ii. Coke Dry Quenching (CDQ) shall be provided for coke quenching for both recovery and non-recovery type coke ovens.	Observation: Please refer point no. 6 of the table. Coke Dry Quenching (CDQ) is not feasible for the non-recovery coke ovens at JSW, Salem Works due to the lack of inert gas availability, significant carbon loss associated with CDQ, increased coke fines generation, and insufficient space for installation. Remarks: The EC general condition may not be technically feasible and commercially viable (due to the capacity) to implement in JSWSL, Salem. The general condition may be exempted.	Revised EC Condition – Nil Compliance: The existing coke ovens (Non-recovery type) were installed with wet quenching in line with the EC approved in 2007. There is no modification proposed in the existing coke ovens in the recently approved EC dated 10.02.2020. Remarks: Request for exemption and removal of the condition as not applicable. The installation of CDQ was taken up with the OEM and it is reported by them that installation of CDQ within the existing capacity of 0.5 MTPA Coke Oven (non-recovery type) is not technically feasible and

Sl. No.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
			viable. Furthermore, as per the Special Condition No. 6 of Pg. No. 11/11 of Standard ToR for Coke Oven Plant (4(b)(ii)) for conducting EIA-EMP Study issued by MoEF&CC, it is clearly stated that installation of CDQ system is applicable for Coke Oven plant of capacity 0.8 MTPA and above. Hence, the condition is not applicable.
11	iv. Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	<p>Observation: The existing Blast Furnace capacities of the steel plant are small capacity (60t hot metal/batch) whereas torpedo ladle is applicable for larger size Blast Furnace (> 200 tons). In JSW open ladle (60 ton) is covered with rice husk during hot metal transfer.</p> <p>Remarks: The EC general condition may not be technically feasible to implement in JSWSL, Salem. However, this condition may be amended as "If torpedo ladles are not used for hot metal transfer, the open ladles shall be covered properly".</p>	<p>Revised EC Condition - Provide suitable covers for open top ladles for transfer of hot metal, in case torpedo ladles are not used.</p> <p>Compliance: Being complied.</p> <p>Remarks: Request for exemption of use of torpedo ladle and revision in the condition. Use of Torpedo ladle is applicable to bigger size BF capacity. The existing BF capacity of the steel plant is small (BF#1 402 m3 with 0.367 MTPA & BF#2 650 m3 with 0.683 MTPA capacity). Ladle capacity is 60 tones and ladles are covered by means of heat insulating compounds such as dry rice husk.</p>
VI. Waste Management			
12	iii. Tar sludge and waste oil shall be blended with coal charged in coke ovens. (applicable only to recovery coke ovens)	<p>Observation: Tar or tar sludge is not produced in this non-recovery type coke oven battery. Waste/ used oil is being</p>	<p>Revised EC Condition - Waste oil generated from the NR – COP shall be disposed to the authorized recyclers.</p>

Sl. No.	EC conditions for JSWSL Salem Works as per existing EC letter dated 10/02/2020 and 20/05/2025	Advices as per Techno-economic feasibility study report by CSIR-CIMFR	Revised EC conditions as per proposed amendment
		disposed of accordance to the HWOM guidelines. Remarks: Since, the unit not installed with recovery type coke oven the part of the general condition may be exempted or amended as waste oil generated from the NR – COP shall be disposed to the authorized recyclers.	Compliance: Not applicable, as the existing coke oven plant is non-recovery type. Remarks: Request for exemption of blending Tar sludge with coal charged in coke ovens, as the existing Coke Oven Plant is non-recovery type.

19.7.4 **Justification for Amendment:** Environmental Clearance dated 10.02.2020 was granted for installation of a 0.8 MTPA slag grinding unit and limited technological upgradation within the existing 1.3 MTPA Integrated Steel Plant, without any modification to the core steelmaking units. During implementation and compliance review, it was observed that certain General Conditions of the EC are either not applicable to the existing units, particularly the Non-Recovery Coke Oven Plant, or cannot be implemented due to legacy design, technology and layout constraints, while a few conditions are only partially implementable during Phase-II upgradation. The EAC (Industry-I), while appraising the proposal for splitting and transfer of the slag grinding unit EC, observed that such non-applicable conditions may be considered for revision through amendment with proper justification. Accordingly, as directed by MoEF&CC, a detailed techno-economic feasibility study has been carried out by CSIR-CIMFR, which concludes that certain conditions are technically infeasible to implement under any circumstances, while others warrant modification. In view of the above, the present proposal seeks amendment of select General Conditions of the EC dated 10.02.2020, limited to non-applicable or technically infeasible conditions, without any dilution of environmental safeguards or statutory compliance.

19.7.5 It is reported that there is no violation under EIA, 2006/court case/show cause/direction related to the project under consideration.

Deliberations by the Committee

19.7.6 The Committee noted the following:

1. The project was earlier granted environment clearance vide F. No. J-11011/281/2006-IA.II(I) dated 10.02.2020 for Installation of 0.8 MTPA slag grinding unit and new facilities related to value addition and technological upgradation within the existing 1.3 MTPA Integrated Steel Plant premises located at Mecheri, Taluk Mettur, District Salem, Tamil Nadu under the provisions of para 7(ii) of the EIA Notification, 2006 in the name of M/s. JSW Steel Works. JSWSL Salem Works obtained splitting & transfer of EC of the existing 0.8 MTPA Slag Grinding Unit to JSW Cement Ltd. and obtained EC Splitting letter F. No. J-11011/281/2006-

IA.I(I) dated 20.05.2025 for Splitting of EC for the existing 0.8 MTPA Slag Grinding Unit of 1.3 MTPA Integrated Steel Plant between JSW Steel Limited Salem Works and JSW Cement Limited. The company obtained CTE vide order number 2006131408047 dated 18.11.2020 and CTO vide Consent No. 2307249391459 dated 23/01/2023 from Tamil Nadu Pollution Control board (TNPCB) valid upto 31.03.2026.

2. The instant proposal is for seeking Amendment in EC obtained from MoEF&CC vide File No. IA-J-11011/281/2006-IA.II (I) dated 10.02.2020 and EC Splitting letter dated 20.05.2025 for the exemption of certain General Conditions of EC without any increase in Steel production capacity as detailed in relevant para above.
3. The PP reported that Environmental Clearance dated 10.02.2020 was granted for installation of a 0.8 MTPA slag grinding unit and limited technological upgradation within the existing 1.3 MTPA Integrated Steel Plant, without any modification to the core steelmaking units. During implementation and compliance review, it was observed that certain General Conditions of the EC are either not applicable to the existing units, particularly the Non-Recovery Coke Oven Plant, or cannot be implemented due to legacy design, technology and layout constraints, while a few conditions are only partially implementable during Phase-II upgradation. The EAC (Industry-I), while appraising the proposal for splitting and transfer of the slag grinding unit EC, observed that such non-applicable conditions may be considered for revision through amendment with proper justification. Accordingly, as directed by MoEF&CC, PP undertook a detailed techno-economic feasibility study through by CSIR-CIMFR, which concludes that certain conditions are technically infeasible to implement under any circumstances, while others warrant modification. In view of the above, the present proposal seeks amendment of select General Conditions of the EC dated 10.02.2020, limited to non-applicable or technically infeasible conditions, without any dilution of environmental safeguards or statutory compliance.
4. The Committee deliberated on the amendments sought and found that the technical justifications for reconfiguration are adequately supported by a detailed techno-economic feasibility study carried out through CSIR-CIMFR, which concludes that certain conditions are technically infeasible to implement under existing circumstances, while others warrant modification.

Recommendations of the Committee:

- 19.7.7 After deliberations, the Committee **recommended** amendment in EC obtained from MoEF&CC vide File No. IA-J-11011/281/2006-IA.II (I) dated 10.02.2020 and EC Splitting letter dated 20.05.2025 for the exemption of certain General Conditions of EC without any increase in Steel production capacity as detailed in relevant para above. The terms and conditions of the EC dated 10.02.2020 and 20.05.2025 shall remain unchanged.

Consideration of Transfer of EC Proposal

Agenda No. 19.8

- 19.8 Transfer of Environmental Clearance from M/s JSL Ferrous Limited to M/s Jindal Ferrous Limited for Iron making facilities of 2.35 MTPA and Steel making facilities of 2.3 MTPA by M/s. JSL Ferrous Limited, located at Kalinganagar Industrial Complex, Jajpur, Odisha- Consideration of transfer of EC.**

[Proposal no.: IA/OR/IND1/541185/2025: File No. IA-J-11011/281/2007-IA.II (I)]

- 19.8.1 M/s. Jindal Ferrous Limited has made an online application vide proposal No. IA/OR/IND1/541185/2025 dated 17.12.2025 and Form - 7 seeking change of company name in the Environment Clearance accorded by MoEF&CC vide letter F. No. J-11011/281/2007-IA.II(I) dated 16.06.2023 from **M/s JSL Ferrous Limited to M/s. Jindal Ferrous Limited.**

Details submitted by Project proponent

- 19.8.2 **Chronology of the project:**

- Environment clearance (EC) to the project cited above was accorded by the Ministry vide letter no. J-11011/281/2007-IA.II (I); dated 16.06.2023 in the name of M/s. JSL Ferrous Limited under the provisions of the EIA Notification, 2006 through transfer of Iron making facilities of 2.35 MTPA and Steel making facilities of 2.3 MTPA from Jindal Stainless Limited located at Kalinganagar Industrial Complex, Jajpur, Odisha.
- Detail of Consent to Establishment/ Consent to Operate:

Type of Order	Date	Details
CTE	07.07.2023	Consent to Establish is obtained from Odisha Pollution Control Board vide letter no.10791/IND-II-CTE-6901 dated 07.07.2023 in the name of M/s. JSL Ferrous Limited
CTO	06/03/2023	Consent to operate is obtained from Odisha Pollution Control Board vide letter no. 10840/IND-I-CON-6948 dated 10.06.2025 for Sinter plant 1x248 m ² in the name of M/s. JSL Ferrous Limited

- 19.8.3 **Details of EDS:**

Sl. No.	Details of EDS sought by Ministry	Reply by PP
	EDS Raised on 18.06.2025	EDS Replied on 16.08.2025
1.	Details of all ECs (including amendments, validity extension) be provided, if applicable.	M/s. JSL Ferrous Limited got 1st time Environment Clearance for transfer of Iron making facilities of 2.35 MTPA and Steel making facilities of 2.3 MTPA from Jindal Stainless Limited located at Kalinganagar Industrial Complex, Jajpur, Odisha vide file No. F. No. J-11011/281/2007-IA.II (I); dated 16th June, 2023.

Sl. No.	Details of EDS sought by Ministry	Reply by PP						
2	Copies of CIN Nos. of both entities be provided, along with documentary proof, as applicable.	Jindal Ferrous Limited (post name change from JSL Ferrous Limited) CIN No :U27200HR2019PLC083764 JSL Ferrous Limited CIN No : U27200HR2019PLC083764 (CIN number remain unchanged)						
3	Valid CTO copy to be uploaded.	The unit has obtained first time CTO from SPCB for 1 x 248 m2 Sinter plant vide letter No. 10840/IND-ICON-6948 dated 10.06.2025.						
4	Copy of CTE and CTO in the name of new entity, or proof of submission of application made to concerned SPCB for change of name in CTO needs to be submitted.	The unit has obtained permission from SPCB for company name change from JSL Ferrous Limited to Jindal Ferrous Limited vide letter No. 12744/IND-ICON- 6948 ; dated 08.07.2025.						
5	Statement of compliance of OM dated 03-11-2023 be provided. In case, name change/transfer is applied after more than 24 months of such change/ transaction, then a CCR may be submitted as per OM dated 19-02- 2025.	M/s. JSL Ferrous Limited got 1st time Environment Clearance for transfer of Iron making facilities of 2.35 MTPA and Steel making facilities of 2.3 MTPA from Jindal Stainless Limited located at Kalinganagar Industrial Complex, Jajpur, Odisha vide file No. F. No. J-11011/281 /2007-IA.II(I); dated 16th June, 2023 which is within the 24 months of the date of filing application i.e. 13th June,2025. Further, the new entity namely M/s. Jindal Ferrous Limited, post name change; got approval from High Level Clearance Authority of State Govt. of Odisha dated 18th September,2023.						
6	Weather forest land is involved or not? If so, details may be provided.	No such forest land is involved in the entire premises.						
7	Steps taken to transfer the forest clearance and NBWL clearance in the name of new entity, if applicable and copy of the approval obtained.	Not applicable.						
8	Weather the land is changed in the name of new entity. If so, the details may be shared along with documentary proof. If not, the details of action initiated to do the same may be shared.	Land approval from Revenue and disaster management department, Govt of Odisha has been obtained for subleasing of land from Jindal Stainless Limited to Jindal Ferrous Limited.						
9	The detailed tabulation on implementation status of EC (chronology wise), duly supported	Sl. No.	Facilities/ Units	Configurat ion	Capaci ty	As per EC/CTE	Implementa tion status	Prod uction as

Sl. No.	Details of EDS sought by Ministry	Reply by PP					
	with CTE and CTOs obtained.						per CTO
			Iron making facilities	2.35 MTPA	EC obtained dated		
		1	Blast Furnace	1 x 2307 m ³	2.35 MTPA	16.06.2023 in the name of JSL Ferrous Limited.	Installed.
		2	Sinter Plant	1 x 120m ² + 1 x 248m ²	3.64 MTPA		1 x 248m ² installed 1 x 120m ² not installed
			SMS	2.3 MTPA	CTE obtained dated		
		1	BOF	1 x 110 T + 1 X 150 T	-	07.07.2023 in the name of JSL Ferrous Limited.	Installed.
		2	LF	2 x 150 T	-		Installed.
		3	Caster Shop	2 x 1 Strand	-		1 x 1 Strand installed.
10	The UNDERTAKING (by transferee) and NOC (by transferor) may be submitted in non-judicial stamp paper.	Affidavit for Undertaking by transferee regarding acceptance of the terms and conditions under which the Prior Environment Clearance was granted is submitted. NOC by the transferor is submitted.					
11	The reason for seeking transfer of EC be submitted.	The reason for seeking transfer of EC for name change from M/s. JSL Ferrous Limited to M/s. Jindal Ferrous Limited is alignment with our evolving business goals and to better report our company brand identity.					
	EDS Raised on 21.08.2025	EDS Replied on 17.12.2025					
1	The EDS Reply was examined, along with the information submitted through Form. It is noted that as per the CIN certificate, the name change of company from 'JSL Ferrous' to 'Jindal Ferrous' happened on 03-05-2023. The application was submitted on 12-06-2025. Hence, the time period between 'change of name' and 'submission of application for EC transfer' is more than 24 months. PP is, therefore, again	CCR report from IRO, MoEF&CC, Bhubaneswar obtained on 10.12.2025 in respect of compliance status of EC conditions of JSL Ferrous Limited has been submitted as an EDS reply. Request letter for condonation of delay in filing application for transfer of Environmental Clearance (name change) from M/s JSL Ferrous Limited to M/s Jindal Ferrous Limited has been submitted through EDS reply addressing to Hon'ble Minister, Environment, Forest & Climate Change, GoI.					

Sl. No.	Details of EDS sought by Ministry	Reply by PP
	requested to go through previous ADS, and comply with the provisions of OM dated 03-11-2023 and 19-02-2025. It is submitted that the proposal needs to be placed before EAC for appraisal, and for doing the same a CCR is required along with a valid justification for such delay, and a request addressed to Hon'ble MEFCC for condonation of delay. Accordingly, PP may comply with the requirements for further consideration of the proposal.	

- 19.8.4 The instant proposal is for change of company name in the Environment Clearance accorded by MoEF&CC vide letter F. No. J-11011/281/2007-IA.II(I) dated 16.06.2023 from M/s JSL Ferrous Limited to M/s. Jindal Ferrous Limited.

Sl. No.	Name of Company	CIN No.	Status w.r.t. Change of ownership
A.	M/s JSL Ferrous Limited	U27200HR2019PLC083764	As per Sl. No. 2.2 of Form-7, the project proponent has submitted that the proposal does not involves change of ownership and the CIN No. of both the companies are found to be same.
B.	M/s Jindal Ferrous Limited	U27200HR2019PLC083764	In view of the same, the proposal involves Change of company name in the Environment Clearance from M/s JSL Ferrous Limited to M/s Jindal Ferrous Limited without change of ownership.

- 19.8.5 **Justification for delay:** PP reported that the delay in filing the application for transfer of Environmental Clearance arose as all facilities earlier held in the name of JSL Ferrous Limited were treated as new projects following the change in company name, and therefore no immediate application for EC transfer was made. During this period, priority was given to obtaining essential statutory approvals such as land, water, and power directly in the name of the new entity, M/s Jindal Ferrous Limited. The process of securing these approvals involved extensive documentation, verification, and coordination with multiple authorities, making it time-consuming. Subsequently, while submitting Form-7 for transfer of EC on 13.06.2025, the project proponent was not aware of the actual effective date for consideration of the company name change as prescribed under the notification dated 19th February, 2025, which further contributed to the delay. The delay is regretted, and a formal condonation request has been submitted to the Hon'ble Minister (EF&CC).

19.8.6 **Implementation status of the existing EC:**

Sl. No.	Facilities/ Units	Configuration	Capacity	As per EC dated	Implementati on status	Production as per CTO
Iron making facilities			2.35 MTPA	EC obtained dated 16.06.2023 in the name of JSL Ferrous Limited.		Commencement of plant operation has not been started. Construction of the project is at final stage.
1	Blast Furnace	1 x 2307 m ³	2.35 MTPA		Installed.	
2	Sinter Plant	1 x 120m ² + 1 x 248m ²	3.64 MTPA		1 x 248m ² installed 1 x 120m ² not installed	
SMS			2.3 MTPA			
1	BOF	1 x 110 T + 1 X 150 T	-		Installed.	
2	LF	2 x 150 T	-		Installed.	
3	Caster Shop	2 x 1 Strand	-		1 x 1 Strand installed.	

19.8.7 Documents submitted for EC transfer:

- Form No.7 for transfer of Environmental Clearance.
- Undertaking by way of Affidavit in a non-judicial stamp dated 13.06.2025 from Director, M/s Jindal Ferrous Limited stating that they shall ensure to comply with all the conditions/environmental safeguards stipulated in the Environment Clearance dated 16.06.2023.
- NOC by way of Affidavit in a non-judicial stamp dated 13.06.2025 from Director, M/s JSL Ferrous Limited stating that they submit NOC for the transfer of the Environmental Clearance dated 16.06.2023.
- Certificate of incorporation pursuant to change of name issued by the Registrar of Companies, Delhi dated 03.05.2023 and CIN No. U27200HR2019PLC083764 w.r.t. change of company name from M/s. JSL Ferrous Limited to M/s. Jindal Ferrous Limited
- Obtained permission from Odisha Pollution Control Board vide letter No. 12744/IND-ICON-6948 dated 08.07.2025 for change in company name from M/s. JSL Ferrous Limited to M/s. Jindal Ferrous Limited.

19.8.8 It is reported that there is no violation under EIA Notification, 2006/ court case/ show cause/ direction related to the project under consideration.

Certified compliance report from Regional Office

19.8.9 The status of compliance report of earlier EC was obtained from Regional Office, Bhubaneswar , MoEFCC vide letter no. 101-1050/EPE/892, dated 10.12.2025 in the name of JSL Ferrous Limited. The details of observations regarding partially complied points are furnished as below and accordingly ATR has been submitted by PP dated 16.12.2025.

Sl. No.	Partially compliance points	Observation by RO	Condition No. as per EC dated 16.06.2023	Response by PP
			Specific/ General	
1	Greening and paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	<p>Partially Complied.</p> <p>The work is under progress. The project proponent has started for paving and greening at some portions. It is reported by the project proponents that measures have been planned for minimizing soil erosion through paved roads and adequate greenbelt and lawn development post completion of construction jobs.</p>	Specific Conditions (ii)	<p>Major roads with larger width inside the plant premises have been paved to arrest soil erosion and dust pollution. Further, all the internal connecting roads will be paved after getting proper access to the road as construction work has not been completed yet. We undertake to complete the job of paving of all the roads by 31.05.2026.</p> <p>Further, on green belt development, we have already covered 35 Acres of land under Green belt cover. Green belt cover, in balance 38 Acres of land will be completed by FY 2026-27 to ensure 33% Green belt cover.</p>
2	Covered sheds and toe walls are provided for raw material storage to check any attrition of raw material, storage sheds shall have garland drains, material traps and shall be built on concrete platforms.	<p>Partially Complied.</p> <p>The construction of project is under progress. The project proponent has constructed common raw material storage yard with concrete flooring along with railway siding. The unit has made provision for garland drain along with RMHS yard. Drainage in the industrial plant is under construction.</p>	Specific Conditions (v)	<p>The unit has constructed garland drain along the RMHS yard. Further, concrete drains have been completed at both sides of the newly constructed paved roads.</p> <p>Balance concrete drain will be made all along the roads for which work is under progress.</p>

Sl. No.	Partially compliance points	Observation by RO	Condition No. as per EC dated 16.06.2023	Response by PP
			Specific/ General	
				Concrete drains all along the road network will be completed by 31.05.2026.
3	<p>Following additional arrangements to control fugitive dust shall be provided.</p> <p>a) Fog/Mist sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid storage areas.</p> <p>b) Proper Covered vehicle shall be used while transport of materials. EC Identification No. – EC22A008OR182825 File No. – IA-J-11011/281/2007-IA-II(I) Date of Issue EC-01/06/2022.</p> <p>Wheel washing mechanisms shall be provided in the entry and exit gates with a complete recirculation system.</p>	<p>Partially Complied.</p> <p>It was observed that the industrial plant was under construction and road inside the project was existing but final finishing by blacktopping/concreting of the road is yet to be done.</p> <p>Measures to be adopted in the project, as reported by the project are mentioned below:</p> <ul style="list-style-type: none"> • Water sprinklers/ Dust extraction system as well as dust suppression system are being installed. • Road transport of materials was being carried out by covered trucks. <p>Project proponents stated that Wheel washing system would be provided.</p>	Specific Conditions (x)	<p>Commencement of plant operation has not yet started. During construction phase, regular mobile water sprinklers have been deployed to arrest fugitive emission during vehicle movement.</p> <p>It has been ensured that raw materials from RMHS yard to respective process unit would be transported through closed conveyors. The unit has proposed for installation of wheel washing system which will be completed by 31.06.2026</p>
4	All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project.	<p>Partially Complied.</p> <p>The project is under construction stage. During the inspection, it was observed that the internal roads were there but need to be properly leveled and</p>	Specific Conditions (xi)	Major roads with larger width inside the plant premises have been paved to arrest soil erosion and dust pollution. Further, the internal connecting roads

Sl. No.	Partially compliance points	Observation by RO	Condition No. as per EC dated 16.06.2023	Response by PP
			Specific/ General	
		<p>black topped/made of concrete. The internal and connective roads are being constructed. Parts of internal roads are concreted, and balance is assured to be constructed. The unit has made provisions for separate entry and exit gates. It is submitted by the project proponents that necessary measures would be taken to maintain the traffic load for the proposed project.</p>		<p>will be paved after getting proper access to the road as construction work has not been completed yet. We undertake to complete the working paving of all roads by 31.05.2026.</p> <p>To maintain traffic load, the unit has taken following steps: The unit has made provision of own common Central Raw material handling section with private railway siding inside the plant premises as major raw materials will be sourced through rail network. The unit has made provision of closed conveyor belts to transport raw materials from RMHS yard to respective process units to minimize air pollution as well as traffic load. The unit has already made separate gates for man and material movements to minimize the traffic load at site.</p>

Sl. No.	Partially compliance points	Observation by RO	Condition No. as per EC dated 16.06.2023	Response by PP
			Specific/ General	
5	Garland drains and collection pits shall be provided for each stockpile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface runoff.	<p>Partially Complied.</p> <p>During the visit to the industrial plant, it was noted that the garland drains were being constructed and at many places, drainage needs to be constructed.</p> <p>The project has installed surface runoff treatment facility in their plant.</p>	Water quality monitoring and prevention (v)	<p>The unit has made garland drain along the RMHS yard.</p> <p>Further, concrete drains have been completed at both sides of the newly constructed paved roads.</p> <p>Balance concrete drain will be made all along the roads for which work is under progress.</p> <p>Concrete drains all along the network will be completed by 31.05.2026.</p>
6	<p>The company shall have a well-laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation of environmental/forest/wildlife norms/conditions. The company shall have a defined system of reporting infringements/ deviation of environmental/forest/wildlife norms/conditions /share holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of Six-Monthly report.</p>	<p>Partially Complied.</p> <p>It is submitted by the project proponents that Environment Policy addressing mitigation of environment impact/ compliance with legal provisions and more is under preparation and copy of the same would be submitted to this office after completion.</p>	Environment Management (ii)	<p>The unit is having common Quality, Environment, Occupational, Health & Safety policy in the name of Jindal Ferrous Limited duly approved by Head of the Unit where it is mentioned regarding Environmental protection and prevention of pollution by reducing emissions, Sustainable and efficient usage of natural resources.</p>
7	The project proponent shall inform the Regional Office as well as the Ministry, date of financial closure and final	It is submitted by the project proponents vide their letter to this office dated 27.11.2025 that	Miscellaneous (vii)	The unit shall submit the Financial closure details after full fledged

Sl. No.	Partially compliance points	Observation by RO	Condition No. as per EC dated 16.06.2023	Response by PP
			Specific/ General	
	approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	the construction activity of the project started in August, 2023 and is still in progress. Financial closure details are yet to be announced post completion of construction of project and is yet to be shared to MoEF& CC.		completion of the project. Date of submission is expected by 31 st March, 2026.

Deliberations by the Committee

19.8.10 The Committee noted the following:

- i. Environment clearance (EC) to the project cited above was accorded by the Ministry vide letter no. J-11011/281/2007-IA.II (I); dated 16.06.2023 in the name of M/s. JSL Ferrous Limited under the provisions of the EIA Notification, 2006 through transfer of Iron making facilities of 2.35 MTPA and Steel making facilities of 2.3 MTPA from Jindal Stainless Limited located at Kalinganagar Industrial Complex, Jajpur, Odisha.
- ii. The instant proposal is for change of company name in the Environment Clearance accorded by MoEF&CC vide letter F. No. J-11011/281/2007-IA.II(I) dated 16.06.2023 from M/s JSL Ferrous Limited to M/s. Jindal Ferrous Limited.
- iii. The EAC deliberated on the proposal for transfer of the Environmental Clearance (EC) and noted that Change of name of Company from JSL Ferrous Limited to Jindal Ferrous Limited having same Corporate Identification Number (U27200HR2019PLC083764) was incorporated on 3rd May, 2023, with no change in ownership, shareholding, legal entity or operational control, as reflected by the unchanged CIN number.
- iv. The EAC further noted that as per the OM dated 03.11.2023, EC transfer requests are to be submitted within one year of the relevant change. PP reported that that the delay in filing the application for transfer of Environmental Clearance arose as all facilities earlier held in the name of JSL Ferrous Limited were treated as new projects following the change in company name, and therefore no immediate application for EC transfer was made. During this period, priority was given to obtaining essential statutory approvals such as land, water, and power directly in the name of the new entity, M/s Jindal Ferrous Limited. The process of securing these approvals involved extensive documentation, verification, and coordination with multiple authorities, making it time-consuming. Subsequently, while submitting Form-7 for transfer of EC on 13.06.2025, the project proponent was not aware of the actual effective date for consideration of the company name change as prescribed under the notification dated 19th February, 2025, which further contributed to the delay. The delay is regretted, and a formal condonation request has been submitted to the Hon'ble Minister (EF&CC).
- v. The Committee also reviewed the compliance status of the existing Environmental Clearance. The certified compliance report (CCR) issued by the Regional Office, Bhubaneswar vide

letter dated 10.12.2025 in the name of JSL Ferrous Limited, along with the Action Taken Report (ATR) submitted by the PP on 16.12.2025, was examined. **The Committee noted that while the PP has given justification and updated status, however, a Review Report from Regional Office, followed up an Action Closure Report (ACR) from the IA-CMD is still pending.** Accordingly, EAC advised PP to obtain an Action Closures Letter from IA-CMD.

- vi. In light of the above deliberations and considering the applicability of the Ministry's OM dated 19th February 2025, the Committee examined the request for condonation of delay in submitting the EC transfer application. The EAC noted that the PP has already submitted the condonation request letter to the Hon'ble Minister (EF&CC) and that the delay arose as the project proponent was not aware of the actual effective date for consideration of the company name change as prescribed under the notification dated 19th February, 2025. As the regulatory approvals remain valid, and there is no change in ownership or operations, the Committee recommended the transfer of EC from M/s JSL Ferrous Limited to M/s. Jindal Ferrous Limited along with condonation of delay, subject to approval of the Hon'ble Minister (EF&CC) and subject to obtaining the ACR from IA-CMD.

Recommendations of the Committee

- 19.8.11 In view of the foregoing and after deliberations, the Committee **recommended** the proposal, **subject to submission of Action Closure report from IA-CMD, MoEF&CC**, for transfer of Environmental Clearance granted by MoEF&CC vide letter F. No. J-11011/281/2007-IA.II(I) dated 16.06.2023 from M/s JSL Ferrous Limited to M/s. Jindal Ferrous Limited, with condonation of delay.

The meeting ended with thanks to the Chair.

Standard ToR in line with Appendix III of the EIA, 2006.
applicable to Proposals Under Industry-1 Sector

Preliminary requirements:

- i. EIA/EMP report cover page shall consists of project title with location, applicable schedule of the EIA Notification, 2006, ToR letter No. with date, study period along with EIA consultant & laboratory details with QCI/NABET/NABL accreditation certificate detail.
- ii. Besides, following points shall be compiled as per QCI/NABET norms:
 - a. Disclaimer by the EIA consultant.
 - b. Declaration by the Functional Area Experts contributed to the EIA study and declaration by the head of the accredited consultant organization/authorized person.
 - c. Undertaking by the project proponent owning the contents (information and data) of the EIA/EMP report.
 - d. Undertaking by the EIA consultant regarding compliance of ToR issued by MoEF&CC.
 - e. Consultant shall submit the Plagiarism Certificate for the EIA/EMP Report.

Structure of EIA/EMP report**Executive Summary**

- i. Table of Contents of the EIA report including list of tables/figures/annexures/abbreviations/symbols/notations.
- ii. Point wise compliance to the ToR issued by MoEF&CC.
- iii. Executive Summary
 - I. Introduction
 - i. Name of the project along with applicable schedule and category as per EIA, 2006.
 - ii. Location and accessibility
 - II. Project description
 - i. Resource requirements (Land; water; fuel; manpower)
 - ii. Operational activity
 - iii. Key pollution concerns
 - III. Baseline Environment Studies
 - i. Ambient air quality
 - ii. Ambient Noise quality
 - iii. Traffic study
 - iv. Surface water quality
 - v. Ground water quality
 - vi. Soil quality
 - vii. Biological Environment
 - viii. Land use
 - ix. Socio-economic environment
 - IV. Anticipated impacts
 - i. Impact on ambient air quality
 - ii. Impact on ambient noise quality
 - iii. Impact on road and traffic

- iv. Impact on surface water resource and quality
- v. Impact on ground water resource and quality
- vi. Impact on terrestrial and aquatic habitat
- vii. Impact on socio-economic environment
- V. Alternative analysis
- VI. Environmental Monitoring program
 - i. Ambient air, noise, water and soil quality
 - ii. Emission and discharge from the plant
 - iii. Green belt
 - iv. Social parameters
- VII. Additional studies
 - i. Risk assessment
 - ii. Public consultation
 - iii. Action plan to address the issues raised during public consultation as per MoEF&CC O.M. dated 30/09/2020
- VIII. Project benefits
- IX. Environment management plan
 - i. Air quality management plan
 - ii. Noise quality management plan
 - iii. Solid and hazardous waste management plan
 - iv. Effluent management plan
 - v. Storm water management plan
 - vi. Occupational health and safety management plan
 - vii. Green belt development plan
 - viii. Socio-economic management plan
 - ix. Project cost and EMP implementation budget.

EIA/EMP Report

1. Introduction

- i. Background about the project
- ii. Need of the project
- iii. Purpose of the EIA study
- iv. Scope of the EIA study

2. Project description

A. Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State.
- ii. Site accessibility
- iii. A digital toposheet in pdf or shape file compatible to google earth of the study area of radius of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).
- iv. Latest High-resolution satellite image data having 1 m - 5 m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with delineation of plant boundary co-ordinates. Area must include at least 100 m all around the project location.
- v. Environment settings of the site and its surrounding along with map.

- vi. A list of major industries with name, products and distance from plant site within study area (10 km radius) and the location of the industries shall be depicted in the study area map.
- vii. In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.
- viii. In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.
- ix. In case of canal/ nala/ seasonal drain and any other water body passing through project site, the PP shall submit the suitable steps /conservation plan/mitigation measures along with contouring, Run -off calculations, disposal etc. A robust and foolproof Drainage Conservation scheme to protect the natural drainage/water bodies and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be provided in the report.
- x. Type of land, land use of the project site needs to be submitted.
- xi. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.
- xii. Project proponent shall prepare Engineering layout plan showing all internal roads minimum 6 m width and 9 m turning radius for smooth traffic flow inside including fire tender as per NBC. Road network shall connect all service areas in layout. This drawing shall include area statement showing plot area, area under roads, parking, green belt with calculations and % with respect to plot area of project site and proper indexing. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- xiii. Project proponent shall submit contour map of project site along with drainage disposal system with calculations and drawings supported with proper indexing including Rain Water Harvesting details with calculations mentioning about GW recharge along with relevant drawing.
- xiv. A detailed report covering all aspects of Fire Safety Management and Fire Emergency Plan shall be submitted.
- xv. Details of drone survey for the site, needs to be included in report and presented before the EAC during appraisal of the project.

B. Forest and wildlife related issues (if applicable):

- i. Status of Forest Clearance for the use of forest land shall be submitted.
- ii. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10 km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.
- iii. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive

areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer showing the distance between the project site and the said areas.

- iv. Wildlife Conservation Plan duly authenticated by the Competent Authority of the State Government for conservation of Schedule I fauna along with budget and action plan, if any exists in the study area.

C. Salient features of the project

- i. Products with capacities in **Tons per Annum** for the proposed project.
- ii. If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.
- iii. Site preparatory activities.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other than raw materials, other chemicals and materials required with quantities and storage capacities.
- vi. Manufacturing process details along with process flow diagram of proposed units.
- vii. Consolidated materials and energy balance for the project.
- viii. Total requirement of surface/ ground water and power with their respective sources, status of approval.
- ix. Water balance diagram
- x. Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
- xi. Man-power requirement.
- xii. Cost of project and scheduled time of completion.
- xiii. In case of expansion projects, project proponent shall submit structural stability certificate showing whether existing structure withstand for proposed expansion activity.
- xiv. Brief on present status of compliance (Expansion/modernization proposals)
 - a. Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out.
 - b. In case of ground water drawl for the existing unit, action plan for phasing out of ground water abstraction in next two years except for domestic purposes and shall switch over to 100 % use of surface water from nearby source.
 - c. Copy of all the Environment Clearance(s) including Amendments/validity of extension/transfer of EC, there to obtained for the project from MoEF&CC/SEIAA shall be attached as Annexures. A Certified Compliance Report (CCR) of the Integrated Regional Office of the Ministry of Environment, Forest and Climate Change/ or concerned authority as per OM No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022 on the status of compliance of conditions stipulated in all the existing environment clearances including amendments shall be provided. A Certified Compliance Report (CCR) issued by the concerned Authority shall be valid for a period of one year from the date of inspection.
 - d. In case the existing project has not obtained Environment Clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. A proper justification needs to be submitted along with documentary proof. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 1994 or 2006, CTE and CTO of FY 2005-2006) obtained from the

SPCB shall be submitted. Further, compliance report to the conditions of CTO from the Regional Office of the SPCB shall be submitted, as per OM No. IA3-22/10/2022-IA.III [E 1772581], dated 8th June, 2022. CCR on CTO conditions issued by the concerned SPCBs/PCCs shall be valid for a period of one year from the date of inspection of the project.

3. Description of the Environment

- i. Study period
- ii. Approach and methodology for data collection as furnished below.

Attributes	Sampling		Remarks
	Network	Frequency	
A. Air Environment			
Micro-Meteorological <ul style="list-style-type: none">Wind speed (Hourly)Wind directionDry bulb temperatureWet bulb temperatureRelative humidityRainfallSolar radiationCloud coverEnvironmental Lapse Rate	Minimum 1 site in the project impact area	1 hourly continuous	<ul style="list-style-type: none">IS 5182 Part 1-20Site specific primary data is essentialSecondary data from IMD, New DelhiCPCB guidelines to be considered.
Pollutants <ul style="list-style-type: none">PM_{2.5}PM₁₀SO₂NO_xCOHCOther parameters relevant to the project and topography of the area	At least 8-12 locations	As per National Ambient Air Quality Standards, CPCB Notification.	<ul style="list-style-type: none">Sampling as per CPCB guidelinesCollection of AAQ data (except in monsoon season)Locations of various stations for different parameters should be related to the characteristic properties of the parameters.The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive

Attributes	Sampling		Remarks
	Network	Frequency	
			<p>receptors including reserved forests,</p> <ul style="list-style-type: none"> Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAAQM Notification of 16/11/2009 along with min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
B. Noise			
<ul style="list-style-type: none"> Hourly equivalent noise levels 	At least 8-12 locations	As per CPCB norms	-
C. Water			
<p>Parameters for water quality</p> <ul style="list-style-type: none"> pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity Total nitrogen, total phosphorus, DO, BOD, COD, Phenol Heavy metals Total coliforms, faecal coliforms Phyto-plankton Zoo-plankton Microalgae/microalgal bloom 	<p>Samples for water quality should be collected and analyzed as per:</p> <ul style="list-style-type: none"> IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents Standard methods for examination of water and wastewater analysis published by American Public Health Association. 		
<p>For River Bodies</p> <ul style="list-style-type: none"> Total Carbon pH 	<ul style="list-style-type: none"> Surface water quality of the 	<ul style="list-style-type: none"> Yield of water sources to be measured during critical season 	

Attributes	Sampling		Remarks
	Network	Frequency	
<ul style="list-style-type: none"> Dissolved Oxygen Biological Oxygen Demand Free NH₄ Boron Sodium Absorption Ratio Electrical Conductivity TDS 	nearest River (60m upstream and downstream) and other surface water bodies	<ul style="list-style-type: none"> Standard methodology for collection of surface water (BIS standards) 	
For Ground Water		<ul style="list-style-type: none"> Ground water monitoring data should be collected at minimum of 8 locations (from existing wells /tube wells/existing current records) from the study area and shall be included. 	
D. Traffic Study			
<ul style="list-style-type: none"> Type of vehicles Frequency of vehicles for transportation of materials Additional traffic due to proposed project Parking arrangement 	-		
E. Land Environment			
Soil <ul style="list-style-type: none"> Particle size distribution Texture pH Electrical conductivity Cation exchange capacity Alkali metals Sodium Absorption Ratio (SAR) Permeability Water holding capacity Porosity 	Soil samples be collected as per BIS specifications		
Land use/Landscape <ul style="list-style-type: none"> Location code Total project area Topography Drainage (natural) 	-		

Attributes	Sampling		Remarks
	Network	Frequency	
<ul style="list-style-type: none"> Cultivated, forest, plantations, water bodies, roads and settlements 			
E. Biological Environment			
Aquatic <ul style="list-style-type: none"> Primary productivity Aquatic weeds Enumeration of phyto plankton, zoo plankton and benthos Fisheries Diversity indices Trophic levels Rare and endangered species Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ) Terrestrial <ul style="list-style-type: none"> Vegetation-species list, economic importance, forest produce, medicinal value Importance value index (IVI) of trees Fauna Avi fauna Rare and endangered species Sanctuaries / National park / Biosphere reserve Migratory routes 			<ul style="list-style-type: none"> Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result in to any adverse effect on any species. Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site. For forest studies, direction of wind should be considered while selecting forests. Secondary data to collect from Government offices, NGOs, published literature.
F. Socio-economic			
<ul style="list-style-type: none"> Demographic structure Infrastructure resource base Economic resource base 			<ul style="list-style-type: none"> Socio-economic survey is based on proportionate, stratified and random sampling method. Primary data collection through questionnaire

Attributes	Sampling		Remarks
	Network	Frequency	
<ul style="list-style-type: none"> Health status: Morbidity pattern Cultural and aesthetic attributes Education 	<ul style="list-style-type: none"> Secondary data from census records, statistical hand books, topo sheets, health records and relevant official records available with Govt. agencies 		

iii. Interpretation of each environment attribute shall be enumerated and summarized as given below:

- Ambient air quality
- Ambient Noise quality
- Surface water quality
- Ground water quality
- Soil quality
- Biological Environment
- Land use
- Socio-economic environment

4. Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)

i. Identification of potential impacts in the form of a **matrix** for the construction and operation phase for all the environment components

Activity	Environment	Ecological	Socio-economic
Construction phase			
Operation phase			

ii. Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

a. Construction phase


b. Operation phase

- Details of stack emissions from the existing as well as proposed activity.
- Assessment of ground level concentration of pollutants from the stack emission based on AQIP Modelling The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any along with wind rose map for respective period
- Impact on ground level concentration, under normal, abnormal and emergency conditions. Measures to handle emergency situations in the event of uncontrolled release of emissions.

iii. Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

a. Construction phase

b. Operation phase

- 
- iv. Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
 - v. Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
 - vi. Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
 - vii. Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
 - viii. Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
 - ix. Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
 - x. Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase
 - xi. Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
 - a. Construction phase
 - b. Operation phase

5. Analysis of Alternatives (Technology & Site)

- i. No project scenario
- ii. Site alternative
- iii. Technical and social concerns
- iv. Conclusion

6. Environmental Monitoring Program

- i. Details of the Environment Management Cell
- ii. Performance monitoring schedule for all pollution control devices shall be furnished.
- iii. Corporate Environment Policy
 - a. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

- b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA.
 - c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions? Details of this system may be given.
 - d. Does the company have system of reporting of non compliances / violations of environment norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report
- iv. Action plan for **post-project environment monitoring matrix**:

Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility
Construction phase					
Operation phase					

7. Additional Studies

- i. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage after offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.
- ii. Details of adoption/ implementation status/plan to achieve the goal of Glasgow COP26 Climate Submit with regard to enhance the non-fossil energy, use of renewable energy, minimization of net carbon emission and carbon intensity with long-term target of "net Zero" emission.
- iii. Implementation status/measures adopted for avoiding the generation of single used plastic waste.
- iv. In cases the project is located in Critically and Severely Polluted Areas, additional mitigation measures adopted and detailed action plan to be submitted in the EIA/EMP Report as per MoEF&CC O.M. No. 22-23/2028-IA.III dated 31/10/2019 and MoEF&CC O.M. No. 22-23/2028-IA.III dated 5/07/2022 has to be submitted.
- v. Public consultation details (Entire proceedings as separate annexure along with authenticated English Translation of Public Consultation proceedings).
- vi. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration. In this regard, time bound action plan as per the MoEF&CC Office Memorandum dated 30/09/2020 shall be submitted.
- vii. Summary of issues raised during public consultation along with action plan to address the same as per MoEF&CC O.M. dated 30/09/2020

S No	Physical activity and action plan		Year of implementation (Budget in INR)			Total Expenditure (Rs. in Crores)
	Name of the Activity	Physical Targets	1 st	2 nd	3 rd	

viii. Risk assessment

- Methodology
- Hazard identification
- Frequency analysis
- Consequence analysis
- Risk assessment outcome

ix. Emergency response and preparedness plan

8. Project Benefits

- i. Environment benefits
- ii. Social infrastructure
- iii. Employment and business opportunity
- iv. Other tangible benefits

9. Environment Cost Benefit Analysis

- i. Net present value
- ii. Internal rate of return
- iii. Benefit cost ratio
- iv. Cost effectiveness analysis

10. Environment Management Plan (Construction and Operation phase)

- i. Air quality management plan
- ii. Noise quality management plan
- iii. Action plan for hazardous waste management
- iv. Action plan for solid waste management
- v. Action plan for e-waste management.
- vi. Action plan for plastic waste management.
- vii. Action plan for construction and demolition waste management.
- viii. Effluent management plan
- ix. Storm water management plan
- x. Rain water harvesting plan
- xi. Plan for maximum usage of waste water/treated water in the Unit
- xii. Occupational health and safety management plan
- xiii. Green belt development plan: An action plan for Green Belt development consisting of 3 tiers of plantations of native species all along the periphery of the project of adequate width shall be raised in 33% of total area with a tree density shall not less than 2500 per ha within a time frame of one year shall be submitted. Survival rate of green belt shall be monitored on periodic basis to ensure that survival rate not be less than 80 %.
- xiv. Socio-economic management plan

- xv. Wildlife conservation plan (In case of presence of schedule I species)
- xvi. Total capital cost and recurring cost/annum for environment pollution control measures shall be included.

11. Conclusion of the EIA study

12. In addition to the above, any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.



Standard ToRs FOR CEMENT INDUSTRY [3(b)]

1. Limestone and coal linkage documents along with the status of environment clearance of limestone and coal mines.
2. Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;
3. Present land use shall be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
4. If the raw materials used have trace elements, an environment management plan shall also be included.
5. Plan for the implementation of the recommendations made for the cement plants in the Corporate Responsibility for Environmental Protection (CREP) guidelines shall be prepared.
6. Energy consumption per ton of clinker and cement grinding
7. Provision of waste heat recovery boiler
8. Arrangement for co-processing of hazardous waste in cement plant.
9. Provision of Alternate fuels.
10. Details of Implementation of Fly Ash Management Rules
11. Emission/Effluent norms as per GSR 496 (E) dated 9/5/2016 [EPA Rules 1986].
12. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
13. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
14. PP shall explore the possibility of plastic waste utilization in the Plant/Unit process.
15. Action plan for 100 % solid waste utilization shall be submitted.
16. PM (PM₁₀ and P_{2.5}) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM₁₀ to be carried over.

Standard ToRs FOR INTEGRATED STEEL PLANT [3(a)]

1. Iron ore/coal linkage documents along with the status of environment clearance of iron ore and coal mines.
2. Quantum of production of coal and iron ore from coal & iron ore mines and the projects they cater to. Mode of transportation to the plant and its impact.
3. For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
4. Recent land-use map based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
5. PM (PM₁₀ and PM_{2.5}) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM₁₀ to be carried over.

6. All stock piles will have to be on top of a stable liner to avoid leaching of materials to ground water.
7. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
8. Plan for slag utilization
9. Plan for utilization of energy in off gases (coke oven, blast furnace)
10. System of coke quenching adopted with justification.
11. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
12. Trace metals in waste material specially in slag.
13. Trace metals in water
14. Details of proposed layout clearly demarcating various units within the plant.
15. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs and outputs (material and energy balance).
16. Details on design and manufacturing process for all the units.
17. Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.
18. Details on requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).
19. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
20. Details on toxic content (TCLP), composition and end use of slag.
21. Fourth Hole fume extraction system shall be provided for submerged Arc Furnace (SAF). Waste heat recovery (WHR) system shall be installed to recover the sensible heat from flue gases of electric arc furnace (EAF).
22. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019 [EPA Rules 1986].
23. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
24. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
25. Action plan for 100 % solid waste utilization shall be submitted.
26. PP shall explore the possibility of plastic waste utilization in the Plant/Unit process.

Standard ToRs FOR METALLURGICAL INDUSTRY (Ferrous and Non-ferrous)[3(a)]

1. A 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
2. Plan for the implementation of the recommendations made for the proposed Unit in the Corporate Responsibility for Environmental Protection (CREP) guidelines.
3. Plan for solid wastes utilization.
4. Plan for utilization of energy in off gases (coke oven, blast furnace)
5. System of coke quenching adopted with full justification.
6. Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.
7. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).

8. Details on toxic content using Toxicity Characteristic Leaching Procedure (TCLP), composition and end use of slag.
9. 100 % dolo char generated in the plant shall be used to generate power.
10. Fourth Hole fume extraction system shall be provided for SAF.WHR system shall be installed to recover sensible heat from flue gases of EAF. Provision for installation of jigging and briquetting plant to utilise the fines generated in the process.
11. No tailing pond is permitted for Iron ore slimes. Dewatering and filtration system shall be provided.
12. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019 [EPA Rules 1986].
13. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
14. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be submitted.
15. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
16. Action plan for 100 % solid waste utilization shall be submitted.
17. PM (PM₁₀ and P_{2.5}) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations (trace elements) of PM₁₀ to be carried over.

Standard ToRs FOR PULP AND PAPER INDUSTRY [5(i)]

1. A note on pulp washing system capable of handling wood pulp shall be included.
2. Manufacturing process details for the existing and proposed plant shall be included. Chapter on Pulping & Bleaching shall include: no black liquor spillage in the area of pulp mill; no use of elemental chlorine for bleaching in mill; installation of hypo preparation plant; no use of potcher washing and use of counter current or horizontal belt washers. Chapter on Chemical Recovery shall include: no spillage of foam in chemical recovery plant, no discharge of foul condensate generated from MEE directly to ETP; control of suspended particulate matter emissions from the stack of fluidized bed recovery boiler and ESP in lime kiln
3. Studies shall be conducted and a chapter shall be included to show that Soda pulping process can be employed for Eucalyptus/Casuarina to produce low kappa (bleachable) grade of pulp.
4. Commitment that only elemental Chlorine-free technology will be used for the manufacture of paper and existing plant without chemical recovery plant will be closed within 2 years of issue of environment clearance.
5. A commitment that no extra chlorine base bleaching chemicals (more than being used now) will be employed and AOx will remain within limits as per CREP for used based mills. Plan for reduction of water consumption.
6. Undertaking to comply with the norms stipulated in the S.O. 3187 (E) dated 7/10/2016 for the projects located in Ganga basin.
7. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.
8. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.

9. Action plan for 100 % waste utilization shall be submitted.

Standard ToRs FOR LEATHER/SKIN/HIDE PROCESSING INDUSTRY [4(f)]

1. Justification for engaging a particular type of process (raw hide/skin into semi finishing or finished leather, semi-finished leather to finished leather, dry finishing operations, chrome/vegetable tanning, etc.).
2. Details regarding complete leather/ skin/ hide processing including the usage of sulphides, nitrogen compounds, chromium or other tanning agents, post-tanning chemicals, biocides, etc., along with the material balance shall be provided.
3. In case of chrome tanning, details of the chrome recovery plant, management of shavings/solid waste including safe disposal.
4. Details on reuse of soak liquor / saline stream from membrane system, if applicable, to the extent possible in pickling activity after required treatment. Also, mention the salt recovery measures.
5. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
6. Action plan for 100 % waste utilization shall be submitted.

Standard ToRs FOR COKE OVEN PLANT [4(b)]

1. Justification for selecting recovery/non-recovery (beehive) type batteries with the proposed unit size.
2. Details of proposed layout clearly demarcating various facilities such as coal storages, coke making, by-product recovery area, etc within the plant.
3. Details of coke oven plant (recovery/non-recovery type) including coal handling, coke oven battery operations, coke handling and preparation.
4. Scheme for coal changing, charging emission centre, Coke quenching technology, pushing emission control.
5. Scheme for coke oven effluent treatment plant details including scheme for meeting cyanide standard.
6. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019. Provision of CDQ in case of coke oven plant of 0.8 MTPA and above.
7. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
8. Action plan for 100 % solid waste utilization shall be submitted.
9. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

Standard ToRs FOR ASBESTOS MILLING AND ASBESTOS BASED PRODUCTS[4(c)]

1. Type of fibres used (Asbestos and others) and preference of selection from techno-environment angle should be furnished

2. As asbestos is used in several products and as the level of precautions differ from milling to usage in cement products, friction products gasketing, textiles and also differ with the process used, it is necessary to give process description and reasons for the choice for selection of process
3. Technology adopted, flow chart, process description and layout marking areas of potential environment impacts
4. National standards and codes of practice in the use of asbestos particular to the industry should be furnished
5. In case of newly introduced technology, it should include the consequences of any failure of equipment/ technology and the product on environment status.
6. In case of expansion project asbestos fibre to be measured at stack emission and work zone area, besides base line air quality.
7. In case of green field project asbestos fibre to be measured in the ambient air.
8. Action plan to limit the particulate matter emission from all the stacks below 30 mg/Nm³ shall be furnished.
9. Action plan for 100 % solid waste utilization shall be submitted.
10. PM (PM₁₀ and P_{2.5}) present in the ambient air must be analysed for source analysis – natural dust/RSPM generated from plant operations in case of expansion projects (trace elements /asbestos fibre) of PM₁₀ to be carried over.
11. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

Standard ToRs FOR IRON ORE BENEFICIATION PLANT [2 (b)]

1. Details regarding pollution control measures to be adopted in the mineral handling area, loading and unloading areas including all transfer points shall be submitted.
2. The Project proponent shall submit action plan for conditioning of the ore with water to mitigate fugitive dust emission, without affecting flow of ore in the ore processing and handling areas.
3. Treatment details regarding effluent generated from the ore beneficiation plant and the mode of transportation of tailing slurry shall be submitted.
4. Separate chapter on slime management shall be submitted.
5. Action plan for regular monitoring of ground water level and quality in and around the project area of beneficiation plant and tailing/slime pond shall be submitted by establishing a network of existing wells and constructing new piezometers.
6. Details regarding lining of the tailing/slime pond to be provided shall be submitted in order to ensure that there is no leaching from the tailing/slime pond.
7. Details regarding establishment of garland drain around the tailing/slime pond and the quantity of decanted water to be re-circulated from the tailing/slime pond shall be submitted along with complete water balance.
8. Technology to be adopted for maximum recovery of ore in order to reduce slurry discharge and to increase the life of the tailing/slime pond shall be submitted.
9. Action plan for 100 % solid waste utilization shall be submitted.
10. Action plan for the stock piles with impervious floor, provision of garland drains and catch pits to trap run off material shall be submitted.

Executive Summary

Executive summary of the report in about 8/10 pages incorporating the following:

- i. Project name and location (Village, Dist, State, Industrial Estate (if applicable))
- ii. Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EC.
- iii. Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)
- iv. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes. Materials balance shall be presented.
- v. Measures for mitigating the impact on the environment and mode of discharge or disposal.
- vi. Capital cost of the project, estimated time of completion
- vii. Site selected for the project – Nature of land – Agricultural (single/double crop), barren, Govt/private land, status of its acquisition, nearby (in 2/3 km.) water body, population, within 10km other industries, forest, eco/sensitive zones, accessibility, (note – in case of industrial estate this information may not be necessary)
- viii. Baseline environmental data – air quality, surface and ground water quality, soil characteristic, flora and fauna, socio/economic condition of the nearby population
- ix. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
- x. Likely impact of the project on air, water, land, flora/fauna and nearby population
- xi. Emergency preparedness plan in case of natural or in plant emergencies
- xii. Issues raised during public hearing (if applicable) and response given
- xiii. CSR plan with proposed expenditure.
- xiv. Occupational Health Measures
- xv. Post project monitoring plan

List of the Expert Appraisal Committee (Industry-1) members participated during VC Mode meeting

S. No.	Name	Position	09.01.2026
1.	Shri Rajive Kumar	Chairman	Present
2.	Dr. Dipankar Shome	Vice Chairman	Present
3.	Dr. S. Ranganathan	Member	Present
4.	Dr. Ranjit Prasad	Member	Present
5.	Dr. W G Prasanna Kumar	Member	Present
6.	Prof. Dinesh Kumar Sharma	Member	Present
7.	Dr. Suranjan Sinha	Member	Present
8.	Dr. E V R Raju	Member	Present
9.	Dr. S K Chaturvedi, (Representatives of NCCBM)	Member	Present
10.	Dr. Prasoon Gargava, Scientist 'F'(Representative of CPCB)	Member	Absent
11.	Dr. B.Ravichandran, Scientist E (Representative of National Institute of Occupational Health -NIOH)	Member	Present (Till 1st half)
12.	Dr. Sandip Kumar Mukhopadhyay, Scientist-F, (Representative of M/o Earth Sciences)	Member	Absent
13.	Shri Dinesh Runiwal, Member Secretary (EAC Ind-1), Scientist F / Director, MoEFCC	Member Secretary	Present
Ministry Officials (Industry-1 Sector)			
14.	Dr P Suresh Babu	Scientist D	Present
15.	Dr Sandeepan BS	Scientist C	Present

Approval of EAC Chairman

Re: Approval of Final MoM of 19th EAC (Industry-1) held on 09 January 2026 - reg.

Rajive Kumar <chairman.eac.ind.1@gmail.com>

Mon, 19 Jan 2026 2:02:33 PM +0530 INBOX

"Dinesh Runiwal" <d.runiwal@gov.in>

"Dipankar Shome" <dshome61@gmail.com>, "ranjitnitj" <ranjitnitj@gmail.com>, "sharmadr_dinesh" <sharmadr_dinesh@yahoo.in>, "suranjan1980" <suranjan1980@gmail.com>, "Dr B Ravichandran ROHC S NIOH" <ravichandran.b@gov.in>, "Sandip Mukhopadhyay" <sandip.m@gov.in>, "ranganathan metals" <ranganathan.metals@gmail.com>, "rajuevr60" <rajuevr60@gmail.com>, "wgpkumar" <wgpkumar@gmail.com>, "PRASOON GARGAVA" <prasoon.cpcb@nic.in>, "sanjeevchaturvedi64" <sanjeevchaturvedi64@gmail.com>, "Industry 1" <industry1moefcc@gmail.com>, "Isha Hiwrale" <isha.hiwrale@govcontractor.in>, "ishahiwrale34" <ishahiwrale34@gmail.com>, "Dr. Suresh Babu Pasupuleti" <suresh.pasupuleti@gov.in>, "sandeepan B S" <sandeepan.bs@gov.in>

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Dear Mr Runiwal,
The minutes are approved.
Kindly do the needful.
Best wishes
Rajive Kumar
Chairman
EAC- Industry-1

On Mon, 19 Jan 2026 at 11:48 AM, Dinesh Runiwal <d.runiwal@gov.in> wrote:

Respected Chairman Sir,

The 19th EAC Meeting of the Industry-1 Sector was held on 09 January 2026 in virtual mode. The draft MoM of the meeting were shared on 15-01-2026 seeking comments/ inputs from the esteemed EAC Members. Based on the feedback received, the MoM have been updated. Since the comments have been duly incorporated in the draft MoM, the Final Version of the MoM of the 19th Meeting of the EAC (Industry-1 Sector), are being attached.

It is requested to kindly accord approval so that the same may be published on PARIVESH portal.

with regards,

Dinesh Runiwal
Scientist-F/ Director
Member Secretary EAC
(Industry-1 Sector)
IA Division, MoEFCC
