



File No: IA-J-11011/1172/2007-IA-II(IND-I)

Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 08/05/2024



To,

M/s KALYANI ISPAT LIMITED
Office No 439, 4th Floor, Magneto Offizo Raipur , RAIPUR, CHHATTISGARH, , 492001
E-mail: dinesh.yadav@kalyaniindia.com

Subject: Greenfield project of Sponge Iron 660000 TPA; MS Billets 465696 TPA; Rerolled Steel Products through Hot Charging & Reheating Furnace 478500 TPA; Iron Ore Pellets 1.2 MTPA; SAF to produce SiMn 36000 TPA and/or FeMn 46000 TPA and/or FeSi 22,500 TPA and/or Pig iron 63000 TPA; Captive Power of 75MW (50MW thru WHRB & 25MW thru CFBC); Pipe Mill 155100 TPA; Galvanized Mill 155100 TPA and Fly Ash Bricks 41500 TPA by M/s. Kalyani Ispat Ltd. located at Village-Kopideh, Tehsil & Dist.- Rajnandgaon Chhattisgarh - Grant of Environmental Clearance

Sir/Madam,

This refers to your proposal no. IA/CG/IND1/446851/2023 dated 23.10.2023 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A1001CG5286032N
(ii) File No.	IA-J-11011/1172/2007-IA-II(IND-I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous),1(d) Thermal Power Plants,3(a) Metallurgical Industries (ferrous and non ferrous),1(d) Thermal Power Plants
(vi) Sector	Industrial Projects - 1
(vii) Name of Project	Greenfield project of Sponge Iron 660000 TPA; MS Billets 465696 TPA; Rerolled Steel Products through Hot Charging & Reheating Furnace 478500 TPA; Iron Ore Pellets 1.2 MTPA; SAF to

produce SiMn 36000 TPA and/or FeMn 46000 TPA and/or FeSi 22,500 TPA and/or Pig iron 63000 TPA; Captive Power of 75MW (50MW thru WHRB & 25MW thru CFBC); Pipe Mill 155100 TPA; Galvanized Mill 155100 TPA and Fly Ash Bricks 41500 TPA located at Village-Kopideh, Tehsil & Dist.- Rajnandgaon (CG) by M/s. Kalyani Ispat Ltd.

(viii) Name of Company/Organization

M/s KALYANI ISPAT LIMITED

(ix) Location of Project (District, State)

RAJNANDGAON, CHHATTISGARH

(x) Issuing Authority

MoEF&CC

(xi) Applicability of General Conditions as per EIA Notification, 2006

No

3. The proposed project activity is listed at S. No. 3(a) Metallurgical Industries (ferrous & non-ferrous), and 1(d) Thermal Power Plants under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.

4. The instant Proposal was earlier placed before the EAC in its 48th meeting held during 8th-9th November, 2023 wherein after deliberation the Committee deferred the proposal due to technical shortcomings. The proposal was further considered in the 55th EAC Meeting held during 29th February and 1st March 2024. The PP has uploaded the written submission on 19.03.2024. The minutes of the meetings and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

5. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1 Sector) are at **Annexure-I**.

6. The Unit configuration and capacity of the proposed project is at **Annexure-II**.

7. The EAC, in its 55th meeting held during **29th February and 1st March 2024**, inter-alia, deliberated the following:

i. The instant proposal is for setting up of a new Greenfield Project of Sponge Iron 660000 TPA; MS Billets 465696 TPA; Rerolled Steel Products Through Hot Charging & Reheating Furnace 478500 TPA; Iron Ore Pellets 1.2 MTPA; SAF to Produce SiMn 36000 TPA and/or FeMn 46000 TPA and/or FeSi 22,500 TPA and/or Pig Iron 63000 TPA; Captive Power of 75 MW (50 MW through WHRB & 25MW through CFBC); Pipe Mill 155100 TPA; Galvanized Mill 155100 TPA and Fly Ash Bricks 41500 TPA.

ii. 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.

iii. 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.

iv. 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.

v. 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.

vi. The total proposed land is 38.68 Ha. (Private land). Entire 38.68 land has been registered in the name of company (M/s. Kalyani Ispat Limited); The entire land is under possession of the company. 30.541 Ha. (78.96%) land out of above 38.68 Ha. has been already diverted for industrial purpose. Remaining area i.e., 8.14 Ha. (21.04%) is under process and will be diverted for industrial purpose shortly.

vii. Village – Kopedih is at 1.2 km, kopedih tedesara Rajnandgaon – Hospital at 1.5 km and other sensitive areas are within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimize 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. Branch Canal is crossing through project area. PP has reported that there is no diversion proposed and no disturbance proposed to existing irrigation canal flowing from West to East and passing through a small portion at the North East corner of the project site of proposed land. The existing canal structure and position falling within project boundary will remain unchanged. PP is only proposing to make a small cross over bridge (Culvert) on Canal on which internal road will be crossing. Further PP has reported that the NOC from concerned authority has been obtained for making bridge on Canal. PP has further submitted an undertaking for no disturbance to canal.

ix. There is a seasonal drain passing through project area. PP has undertaken through the affidavit submitted, that they will not start any construction works at site unless the prior permission for diversion (shifting) of seasonal drainage land is obtained from the competent authorities. It is also undertaken that for any reason if they are not permitted to shift the existing drain area, then they will not disturb the existing drainage area and they will make permanent structures by constructing the free flowing drainage for smooth passage of rain water at their own cost on the same land on which the drain exists on the khasara map at present. Budget for this is earmarked in EMP separately.

x. Khapri Nala is at a distance of 0.3 km in North direction, minor irrigation tank at 0.7 km in West along with several other water bodies within the study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.

xi. The water requirement for proposed project is estimated as 4400 m³/day which will be obtained from the Surface Water from Shivnath River (at village Anjora) through pipeline and Recharge of the ground water through rain water collection ponds and wells will be developed. The EAC deliberated on the water requirement is of the opinion that PP shall obtain necessary permission from the Competent Authority in this regard.

xii. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and found it satisfactory.

xiii. The PP has submitted that greenbelt will be developed in 13.15 ha area which is about 34% of the total project area. Thus, total of 13.15 Ha area (34 % of total project area) will be developed as greenbelt. Total No. of 32875 Saplings will be planted and nurtured in 13.15 Ha within a period of 1 year. Survival rate above 90% will be maintained and replacement of plants as per mortality will be done immediately in time. The EAC deliberated on the greenbelt layout plan along with action plan and the budget earmarked and is of the opinion that greenbelt plan shall be strictly implemented as per the commitment.

xiv. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.

xv. The Committee also deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.

xvi. The EAC also deliberated on the ADS reply of the project proponent and found it satisfactory.

xvii. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.

xviii. 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.

xix. 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.

xx. 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.

8. The EAC (Industry-1 Sector), in its 55th meeting held during 29th February and 1st March 2024, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Environment Clearance subject to stipulation of specific and general EC conditions as detailed in Annexure-III.

9. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1 Sector) hereby decided to grant Environment Clearance for instant proposal of M/s Kalyani Ispat Limited under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions (Annexure-III)

10. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

11. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

12. Any appeal against this environmental clearance 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.

13. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

14. This issues with approval of the competent authority.

(Dr. R. B. Lal)
Scientist 'F'/Director
Tel: 011-20819346
Email-rb.lal@nic.in

Copy To

1. The Principal Secretary Forest, Mahanadi Bhawan, Nawa Raipur, Atal Nagar Chhattisgarh, India.
2. Additional Chief Secretary Forest, Mahanadi Bhawan, Nawa Raipur, Atal Nagar, Chhattisgarh.
3. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
4. The Principal Chief Conservator of Forests (HoFF) Chhattisgarh Forest Department, Jai Road Aranya Bhawan Raipur (C.G.)-492007.
5. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19 Naya Raipur, Atal Nagar, Chhattisgarh - 492002.
6. The Chairman, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
7. The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhawan, North Block Sector-19 Naya Raipur (C.G.) 492002.
8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
9. The District Collector, Rajnandgaon, Chhattisgarh.
10. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
11. Guard File/Record File/Monitoring File/MoEFCC website/Parivesh Portal.

(Dr. R. B. Lal)
Scientist 'F'/Director



Details of the proposal are as per the EIA/EMP report

S. No.	Particulars	Details																																	
a.	Terms of Reference for undertaking EIA study	18.07.2022																																	
b.	Period of baseline data collection	1 st March 2022 – 31 st May 2022																																	
c.	Date of Public Consultation	16.12.2022																																	
d.	Action plan to address the PH issues	An amount of Rs 14.15 Cr have been earmarked for action plan. Detail of activities proposed attached as Annexure IV .																																	
e.	Location of the project	Village-Kopideh, Tehsil & Dist.- Rajnandgaon Chhattisgarh																																	
f.	Latitude and Longitude of the project site	<table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>BP1</td> <td>21°10'26.83"N</td> <td>81°11'58.95"E</td> </tr> <tr> <td>BP2</td> <td>21°10'22.77"N</td> <td>81°12'6.66"E</td> </tr> <tr> <td>BP3</td> <td>21°10'9.86"N</td> <td>81°12'3.08"E</td> </tr> <tr> <td>BP4</td> <td>21°10'2.62"N</td> <td>81°11'59.42"E</td> </tr> <tr> <td>BP5</td> <td>21°10'2.60"N</td> <td>81°11'54.33"E</td> </tr> <tr> <td>BP6</td> <td>21° 9'58.46"N</td> <td>81°11'52.99"E</td> </tr> <tr> <td>BP7</td> <td>21°10'6.05"N</td> <td>81°11'37.36"E</td> </tr> <tr> <td>BP8</td> <td>21°10'15.02"N</td> <td>81°11'37.84"E</td> </tr> <tr> <td>BP9</td> <td>21°10'20.49"N</td> <td>81°11'43.18"E</td> </tr> <tr> <td>BP10</td> <td>21°10'18.72"N</td> <td>81°11'56.76"E</td> </tr> </tbody> </table>	Point	Latitude	Longitude	BP1	21°10'26.83"N	81°11'58.95"E	BP2	21°10'22.77"N	81°12'6.66"E	BP3	21°10'9.86"N	81°12'3.08"E	BP4	21°10'2.62"N	81°11'59.42"E	BP5	21°10'2.60"N	81°11'54.33"E	BP6	21° 9'58.46"N	81°11'52.99"E	BP7	21°10'6.05"N	81°11'37.36"E	BP8	21°10'15.02"N	81°11'37.84"E	BP9	21°10'20.49"N	81°11'43.18"E	BP10	21°10'18.72"N	81°11'56.76"E
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g.	Total land	38.68 Ha. (Private land): Entire land is purchased and under possession of the company.																																	
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	<p>The project is proposed on the 38.68 Hectare land.</p> <p>Entire 38.68 land has been registered in the name of company (M/s. Kalyani Ispat Limited); The entire land is under possession of the company.</p> <p>The entire land (38.68 Ha.) is purchased from private land owners.</p> <p>30.541 Ha. (78.96%) land out of above 38.68 Ha. has been already diverted for industrial purpose. Remaining area i.e., 8.14 Ha. (21.04%) is under process and will be diverted for industrial purpose shortly.</p> <p>The balance land will also be permanently diverted to industrial purpose. These lands are located outside the master plan area and have no land use assigned to it by the State Govt.</p> <p>Remarks:</p> <p>It is to submit that the major part of the present land is purchased by us (M/s. Kalyani Ispat Ltd.) from “M/s. Vandana Ispat Ltd.” who had obtained EC vide letter No EC No. F- J- 11011/1172/2007-IA II (I) Dated 08.10.2010 from MoEF, New Delhi. Validity of EC was only for five years as per original EIA Notification 2006. Subsequently as per the Notification dated 29th April, 2015 S.O. 1141(E).— it was possible to extend the validity by the regulatory authority concerned by a maximum period of seven years if an application is made to the regulatory</p>																																	

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		<p>authority by the applicant within the validity period, together with an updated Form-I. Based on this provision the unit had also submitted the request to extend the validity but as it was not qualified for the same so at the time of sell of the land by them the EC had already expired a few years back.</p> <p>M/s. Vandana Ispat Limited had not done any activity on this land and not obtained any Consent to Establish and had also not implemented any industrial facilities in the land. The present EC applicant (M/s. Kalyani Ispat Ltd.) had only purchased the land, and presently the land is barren land.</p> <p>PP has voluntarily submitted this information regarding the issuance of the above EC along with our TOR application and also mentioned about it, in PFR and EIA report, and have clearly disclosed this fact</p>																																	
i.	Existence of habitation & involvement of R&R, if any	<p>Project Site: No Study Area:</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Kopedih</td> <td>1.2 km</td> <td>SW</td> </tr> </tbody> </table>	Habitation	Distance	Direction	Kopedih	1.2 km	SW																											
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j.	Elevation of the project site	Min 288 m. – Max 292 m.																																	
k.	Involvement of Forest land if any.	No Forest land is involved in the project site.																																	
l.	Water body exists within the project site as well as study area	<p>Project Site: Branch Canal – Crossing through project area Seasonal Drain – Passing through project area</p> <p>Study area:</p> <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance (KM)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Shivnath River</td> <td>4.9</td> <td>E</td> </tr> <tr> <td>Kharkhara Nadi</td> <td>7.7</td> <td>S</td> </tr> <tr> <td>Khapri Nala</td> <td>0.3</td> <td>N</td> </tr> <tr> <td>Bharda Nala</td> <td>5.7</td> <td>N</td> </tr> <tr> <td>Pulgaon Nala</td> <td>5.7</td> <td>E</td> </tr> <tr> <td>Khapri Canal</td> <td>7.0</td> <td>ESE</td> </tr> <tr> <td>Chitwar Nala</td> <td>6.7</td> <td>NNE</td> </tr> <tr> <td>Sarabandha Talab</td> <td>7.0</td> <td>ENE</td> </tr> <tr> <td>Naya Talab</td> <td>7.5</td> <td>ENE</td> </tr> <tr> <td>Minor Irrigation Tank</td> <td>0.7</td> <td>W</td> </tr> </tbody> </table>	Water body	Distance (KM)	Direction	Shivnath River	4.9	E	Kharkhara Nadi	7.7	S	Khapri Nala	0.3	N	Bharda Nala	5.7	N	Pulgaon Nala	5.7	E	Khapri Canal	7.0	ESE	Chitwar Nala	6.7	NNE	Sarabandha Talab	7.0	ENE	Naya Talab	7.5	ENE	Minor Irrigation Tank	0.7	W
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m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<p>Study area Nil</p> <p>List of Reserved and protected forests: Reserve Forest Nr. Mangata Village - 3.7 KM(NW)</p>																																	
n.	Project cost	The capital cost of the proposed project is Rs. 943.02 Crores																																	

S. No.	Particulars	Details
o.	EMP cost	The capital cost for environmental protection measures is proposed as Rs. 62.36 Crores (Revised cost). The annual recurring cost towards environmental protection measures is proposed as Rs. 1.48 Crores.
p.	Employment opportunity	The employment generation from the proposed Greenfield project is 1230 (1170 Administrative Staff + 60 Production Staff).
q.	Water and Power requirement	<p>The water requirement for proposed project is estimated as 4400 m³/day fresh water requirement will be obtained from the Surface Water from Shivnath River (at village Anjora) through pipeline and Recharge of the ground water through rain water collection ponds and wells will be developed. The Permission for drawl of surface water is obtained from Water Resources Department. Vide Lr. No Application No. WA00356 Dated 18.08.2022. The water purifier will be provided for the purpose. The maximum demand of drinking water is assessed to be 62 KL/day.</p> <p>The power requirement for the proposed project is estimated as will be 98 MW, out of which 75 MW will be obtained from captive power plant and 23 MW will be sourced through State Grid (CSPDCL) In addition to this total 2 No's of 5000 kVA DG sets are proposed for emergency backup.</p>



Unit configuration and capacity

S. No.	Process plant	Proposed configuration of the plant	Product Name	Capacity (in TPA)
1	DRI Kiln (Coal Fired)	500 TPD X 4 Nos.	Sponge Iron	660,000
2	Induction Furnace along with CCM and LRF	Induction Furnace (20Tons X 8Nos); LRF (25Tons x 1 No) and AOD (25Tons x 1 No).	MS Billets	465,696
3	Rolling Mill			478,500
	a. Hot Charging Rolling Mill	Electrical driven Rolling Mill about 980TPD	Rerolled Steel product (Wire Rod, TMT bar, Structure Steel, Strips etc.)	323,400
	b. Billet Reheating Furnace	Reheating Furnace based Rolling Mill about 470TPD	Re-rolled Steel products (Wire rod, Rebar, TMT, Strips, Structural Steel etc.)	155,100
4	Pellet plant	1.2 MTPA x 1 Nos.	Iron Ore Pellets	1,200,000
5	Sub-Merged Arc Furnace	Electrically operated Sub-Merged Arc Furnace 9 MVA x 2 nos	Silico Manganese	36,000
			And/or	
			Ferro Silicon	22,500
			And/or	
			Ferro Manganese	46,000
			And/or	
			Pig Iron	63,000
6	Captive Power Plant (Boiler and TG based)	Waste Recovery Heat Boilers (WHRB)	Captive Power	50 MW
		Circulating fluidized bed combustion (CFBC)		25 MW
7	Pipe Mill/Tube Mill	470 Tones per day	MS Pipes/ Tubes	155,100
8	Galvanized Unit	470 Tones per day	Galvanized products	155,100
9	Fly Ash Bricks/ Block making unit	Fly Ash product making facilities	Fly Ash Bricks/ Blocks	41,500

Specific and General EC conditions

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 of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iv. PP shall complete the conversion of the total proposed land for industrial use prior to commencement of proposed project.
- v. Village – Kopedih is at 1.2 km, kopedih tedesara Rajnandgaon – Hospital at 1.5 km and other sensitive areas are 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.
- vi. As committed, PP shall construct the bridge above the branch canal passing through the project area based on the NOC from concerned authority and there shall be no disturbance to the canal.
- vii. PP shall make efforts for the conservation of the seasonal drain passing through project area.
- viii. Khapri Nala is at a distance of 0.3 km in North direction, minor irrigation tank at 0.7 km in West along with several other water bodies within the study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- ix. Total water requirement of 4400 m³/day which will be obtained from the Surface Water from Shivnath River (at village Anjora) through pipeline after obtaining necessary permission from the Competent Authority.
- x. Three tier Green Belt shall be developed in atleast 33% of the project area, all along the project site in a period of one year of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier

for air pollution & noise levels towards sensitive areas nearby project site. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

- xi. 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 amounting to Rs. 14.15 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- xii. The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.

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 04 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. 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/Nm^3 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.
- xxvi. Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six monthly compliance report.
- xxvii. Low NO_x Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.

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.
- x. 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 (pre-heating of combustion air) at the flue gases of reheating furnaces.
- iv. Practice hot charging of slabs and billets/blooms as far as possible.
- v. Ensure installation of regenerative type burners on all reheating furnaces.

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

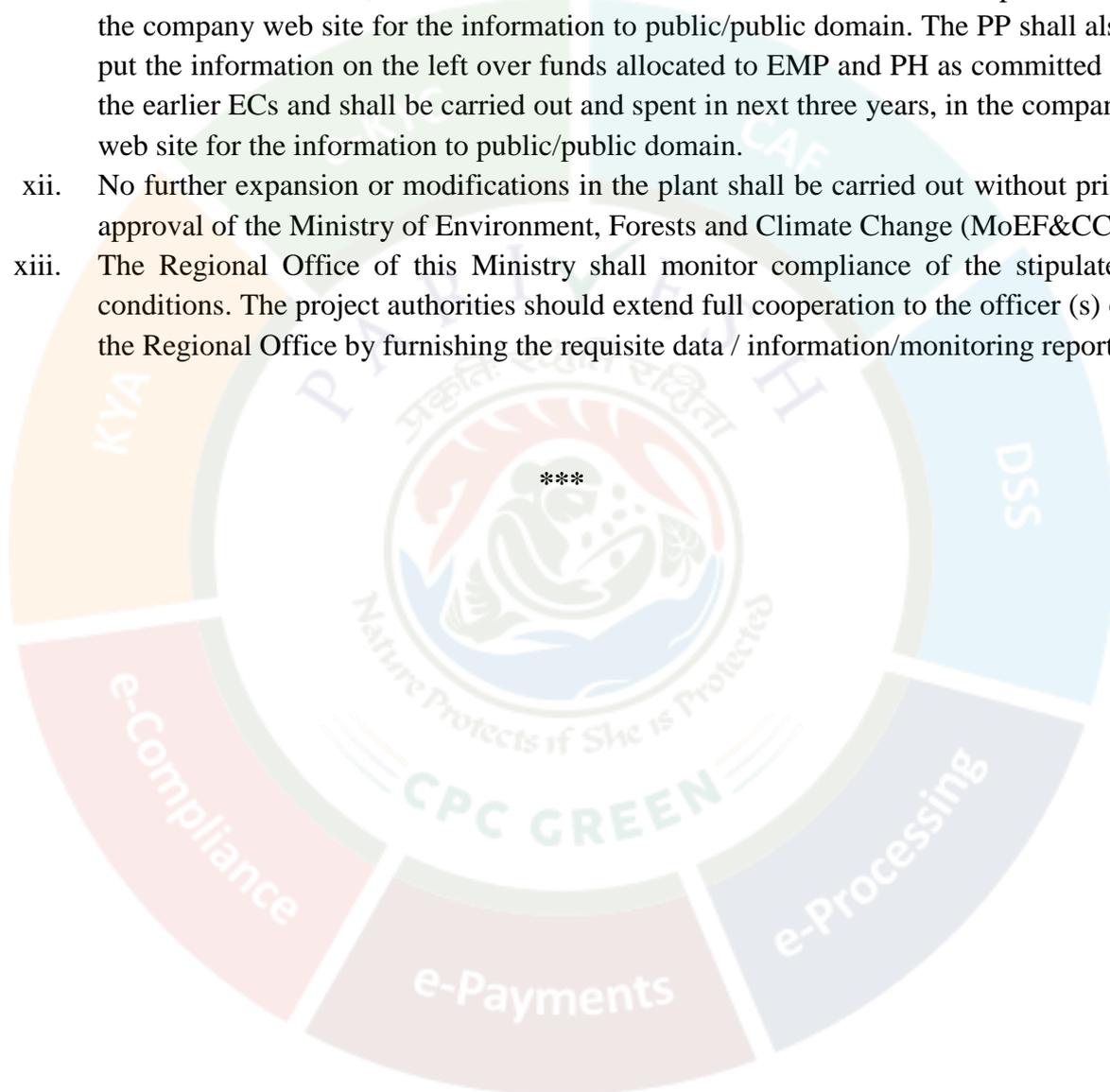
activities in consultation with the village Panchayat and the District Administration as committed.

- 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 environmental 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, NO_x (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. 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.



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

Sr. No	Physical Activity and Action Plan		Target of Implementation of Action Plan (Timeline)			Total Expenditure (Rs. In Crs.)
	Name of Activity	Physical Targets	1 st Year (FY. 2024-25)	2 nd Year (FY. 2025-26)	3 rd Year (FY. 2026-27)	
1	Rural Infrastructure like strengthening of Road/ Rain Water Harvesting Structures / Solar Streetlight at village Road	Location: Village Kopedih and Magarlota Work: <ul style="list-style-type: none"> Strengthening of internal Road of village Kopedih approx.- 2 KM and Magarlota approx. 1.5 KM Providing Street light with poles in the village Road of village Kopedih and Magarlota Rain Water Harvesting at Community land of Kopedih – 4 Nos. and Magarlota – 4 Nos. 	Starting of Work of Road Strengthening, Rain Water Harvesting and implementation of Street lights at Kopedih Village 01 April 2024	Starting of Work of Road Strengthening, Rain Water Harvesting and implementation of Street lights at Magarlota Village 01 April 2025	Completion of work March 2027	2.00
2	Drinking Water facility at Village	Location – Village Kopedih and Magarlota Work: <ul style="list-style-type: none"> 4 Nos. of Borewell for drinking water and storage facility and Water Treatment RO Facility to provide Drinking Water 	2 Nos. Borewell and storage facility, RO facility and water supply system at village Kopedih 2 Nos. Borewell and storage facility, RO facility and water supply system at	2 Nos. Borewell and storage facility, RO facility and water supply system at village Magarlota 2 Nos. Borewell and storage facility, RO facility and water supply system at	Completion of work March 2027	0.75

Sr. No	Physical Activity and Action Plan		Target of Implementation of Action Plan (Timeline)			Total Expenditure (Rs. In Crs.)
	Name of Activity	Physical Targets	1 st Year (FY. 2024-25)	2 nd Year (FY. 2025-26)	3 rd Year (FY. 2026-27)	
			village Kopedih	village Kopedih		
3	Pond upliftment	Location: Village Kopedih and Magarlota Work: 1. Induced aeration system will be provided in bathing area of the pond 2. Community toilet with septic tank will be provided along with pond boundary. 3. De-silting will be done for pond 4. Pachari (RCC Steps) to be provided in pond in Bathing area	-	Starting of Work of implementation of aeration system, community toilet and desilting at Kopedih and Magarlota April 2025	Completion of work March 2027	2.00
4	Human Health / Pathology Centre Clinic	Location: Village: Kopedih, Size of Room: 20 X 30 = 600 Sqft Facility: 1 OPD chamber, 1 Lab room, 1 Patient waiting area, 1 Ambulance, First Aid and Minor OT, ECG and Sonography Machine etc./. Quality: RCC Roof and Floor, Fly Ash Brick Wall.	Site selection and approval from Local authority at Village-Kopedih April 2024	Work in progress	Completion of work and start the functioning of centre March 2027	2.00
5	School Upliftment	Location- Govt School Kopedih and Magarlota Work: Air Purifier – 8 Nos.	-	Starting of work at Kopedih and Magarlota Village and	Completion of work March 2027	1.50

Sr. No	Physical Activity and Action Plan		Target of Implementation of Action Plan (Timeline)			Total Expenditure (Rs. In Crs.)
	Name of Activity	Physical Targets	1 st Year (FY. 2024-25)	2 nd Year (FY. 2025-26)	3 rd Year (FY. 2026-27)	
		with 5 years AMC Greenbelt development – approx. 100 trees Separate Toilet upgradation for boys and girls 2 Nos. Solar Lighting – 1 kWh Potable Drinking water (RO) with 5 years AMC Establishment of Library including rooms, providing computer, Library and other scientific equipment with internet connectivity		completed by April 2025		
6	Community Centre, and Dharamshala with Library	Location – Village- Kopedih Work: Area 3000 Sqft Facility: Community Centre with Dharmashal and Library: Quality: RCC Roof and Floor, Fly Ash Brick Wall.		Starting of work at Kopedih April 2025	Completion of work and start the functioning of center March 2027	1.00
7	Construction of Cow shed at Gothan. (Community Cow grazing area)	Construction of 2000 Square feet Cow Shed at Gothan At Village Kopedih and Magarlota		Construction of 2000 Square feet Cow Shed April 2025	--	0.25
8	Agri Clinic and Farmers Training and Facilitation Centre to improve crop quality and production	Location: Village Kopedih at community land provided by Village Panchayat/ Local Authority. Building Size : Approx 1000	-	Site selection and approval from Local authority at Village- Kopedih April 2025	Completion of work and start the functioning of training center and facilitation center March 2027	1.50

Sr. No	Physical Activity and Action Plan		Target of Implementation of Action Plan (Timeline)			Total Expenditure (Rs. In Crs.)
	Name of Activity	Physical Targets	1 st Year (FY. 2024-25)	2 nd Year (FY. 2025-26)	3 rd Year (FY. 2026-27)	
		<p>Sqft. (50 X 20 sqft) Quality: RCC Roof and Floor, Fly Ash Brick Wall. Facilities: Agriculture and horticulture Expert- 1 person on behalf of the company. A Rapid soil testing facility/kit will be provided along with the 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 productivity and better selection of crops. Training for efficient crop management Awareness for “Jaivik and Sustainable Agriculture” Promotion of Bio Fertilizer, Promotion of Macorahiza and other Microbial Fertilizer to improve soil quality and crop quality. Training to farmers to minimize erosion of soil and quality improvement.</p>				

Sr. No	Physical Activity and Action Plan		Target of Implementation of Action Plan (Timeline)			Total Expenditure (Rs. In Crs.)
	Name of Activity	Physical Targets	1 st Year (FY. 2024-25)	2 nd Year (FY. 2025-26)	3 rd Year (FY. 2026-27)	
9	Development of Greenbelt as Oxygen cum Eco Park	<p>Location: Village Kopedih and Magarlota at community land to be obtained through Village Panchayat.</p> <p>Work: Development of Oxygen Cum Eco Park at each village 1. Plantation of approx. 500 trees in each park 2. Walking path way, 3. Resting chairs 4. Open Gym equipment, 5. Water supply for greenbelt and drinking purpose. 6. Five-year maintenance then handing over to Village Pnachayat a full fledge developed oxygen cum Eco Park</p>	Site selection and approval from Local authority at Village-Kopedih and Magarlota April 2024	Work in progress	Completion of work and start the functioning of centre March 2027	1.50
10	Water Shed Management	<p>Location : within 5 KM radium</p> <p>Physical activity:</p> <ul style="list-style-type: none"> ➤ Study and survey of 5 Km radium for existing water bodies, water tables ➤ Preparation of management plan for ➤ Construction of sub surface dyke ➤ Deepening and cleaning Khapari Nala Diversion 	-	Starting the survey and completion of study by March 2026	Completion work by implementation deepening and cleaning ,of tank, and lining of khapari nala	1.65

Sr. No	Physical Activity and Action Plan		Target of Implementation of Action Plan (Timeline)			Total Expenditure (Rs. In Crs.)
	Name of Activity	Physical Targets	1 st Year (FY. 2024-25)	2 nd Year (FY. 2025-26)	3 rd Year (FY. 2026-27)	
		Tank - approx 10 Hec. ➤ Cleaning and lining of Khapari Nala for about 1.5 KM from Diversion Tank				
TOTAL:						14.15

