



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



Minutes of 20th MEETING OF THE EXPERT APPRAISAL COMMITTEE-(INDUSTRY-1 SECTOR) meeting Industrial Projects - 1 held from 22/01/2026 to 23/01/2026 Date: 02/02/2026

MoM ID: EC/MOM/EAC/259124/1/2026

Agenda ID: EC/AGENDA/EAC/259124/1/2026

Meeting Venue: N/A

Meeting Mode: Virtual

Date & Time:

| | | |
|------------|----------|----------|
| 22/01/2026 | 10:00 AM | 05:00 PM |
| 23/01/2026 | 10:00 AM | 05:00 PM |

1. Opening remarks

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.

2. Confirmation of the minutes of previous meeting

Confirmation of the Minutes of the 19th meeting of the EAC for Industry-I sector held on 9th January, 2026 at MoEF&CC through VC Mode.

The EAC meeting for Industry-I sector was held on 9th January, 2026 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 19th meeting of the EAC for Industry-I sector held on 9th January, 2026 conducted through VC Mode, and noted that one request was received for modification/ factual correction in the minutes of the 19th EAC meeting, as mentioned below:

Agenda No. 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 & F. No. IA-J-11011/240/2023-IA-II (IND-I)]
[Consultant: Perfect Enviro Solutions Pvt. Ltd.; Valid upto: 02.11.2030]

PP vide email dated 20-01-2026 requested for replacement of hazardous waste quantification and disposal related table at Para 3.2.2 'Project Salient features' as the the information related to MEE salts was not captured therein due to incomplete submission by PP/ Consultant. The EAC considered the PP's request and noted that the issue is of factual correction in nature, and may be updated. Accordingly, the updated table to be replaced in MoM of Agenda 19.3, at relevant Para mentioned above, is placed below:

| S. No. | Name of Waste | Souce | Category as per HWM Rules, 2016 | Quantity (TPA) | Disposal method |
|--------|--------------------------|---------|---------------------------------|-----------------------|--|
| 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 | | | 2.5 | |

| | | | | | |
|----|---------------------------------------|--------------------------|------|----------------|--|
| | Gloves | | | | |
| 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. |
| 8 | Discarded Containers/ Barrels/ Liners | Storage of Raw Materials | 33.1 | 200 Nos./ Year | Collection, Storage, Transportation and disposal by send to authorized recyclers. |
| 9 | Resin | Water treatment | 35.2 | 0.5 | Collection, Storage, Transportation and disposal to TSDF. |
| 10 | ETP Sludge | ETP | 35.3 | 1200 | Collection, Storage, Transportation and disposal to TSDF. |
| 11 | MEE Salt | MEE | 35.3 | 15 | Collection, Storage, Transportation and disposal to TSDF. |

(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 20th 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 -22/01/2026

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

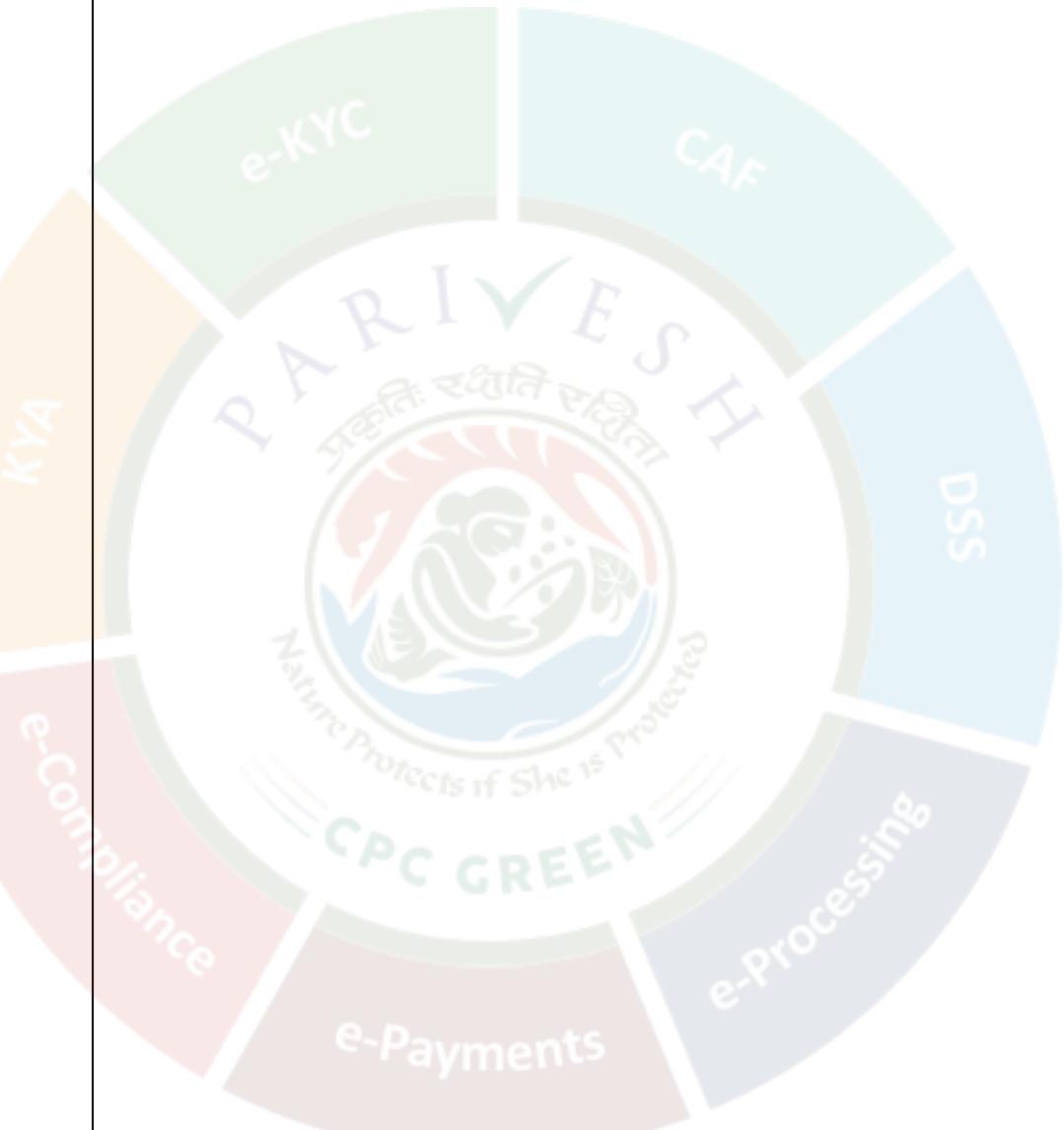
Expansion of Cement Plant Capacity to Increase in Production of Clinker from 4.685 to 5.922 Million TP A, Cement (OPC, PPC, PSC, CC & SRC) from 3.65 to 5.11 Million TPA and Waste Heat Recovery Power plant from 27 MW to 28.5 MW through modernization and upgradation of process units by M/s. The Ramco Cements Limited at Kumarasamy Raja Nagar, Jaggaiahpet Mandal, NTR District of Andhra Pradesh, applied as per MOEFCC OM dated 11.04.2022 and 30.05.2022, under para 7(ii)(a) of EIA Notification, 2006 by THE RAMCO CEMENTS LIMITED located at NTR, ANDHRA PRADESH

| Proposal For | | Expansion EC | |
|--|----------------------------|-----------------|---|
| Proposal No | File No | Submission Date | Activity Sub-Activity (Schedule Item) |
| IA/AP/IND1/556936/2026 | J-11011/403/2006-IA.II (I) | 09/01/2026 | Cement plants Integrated Cement plants and Grinding units (3(b)) |

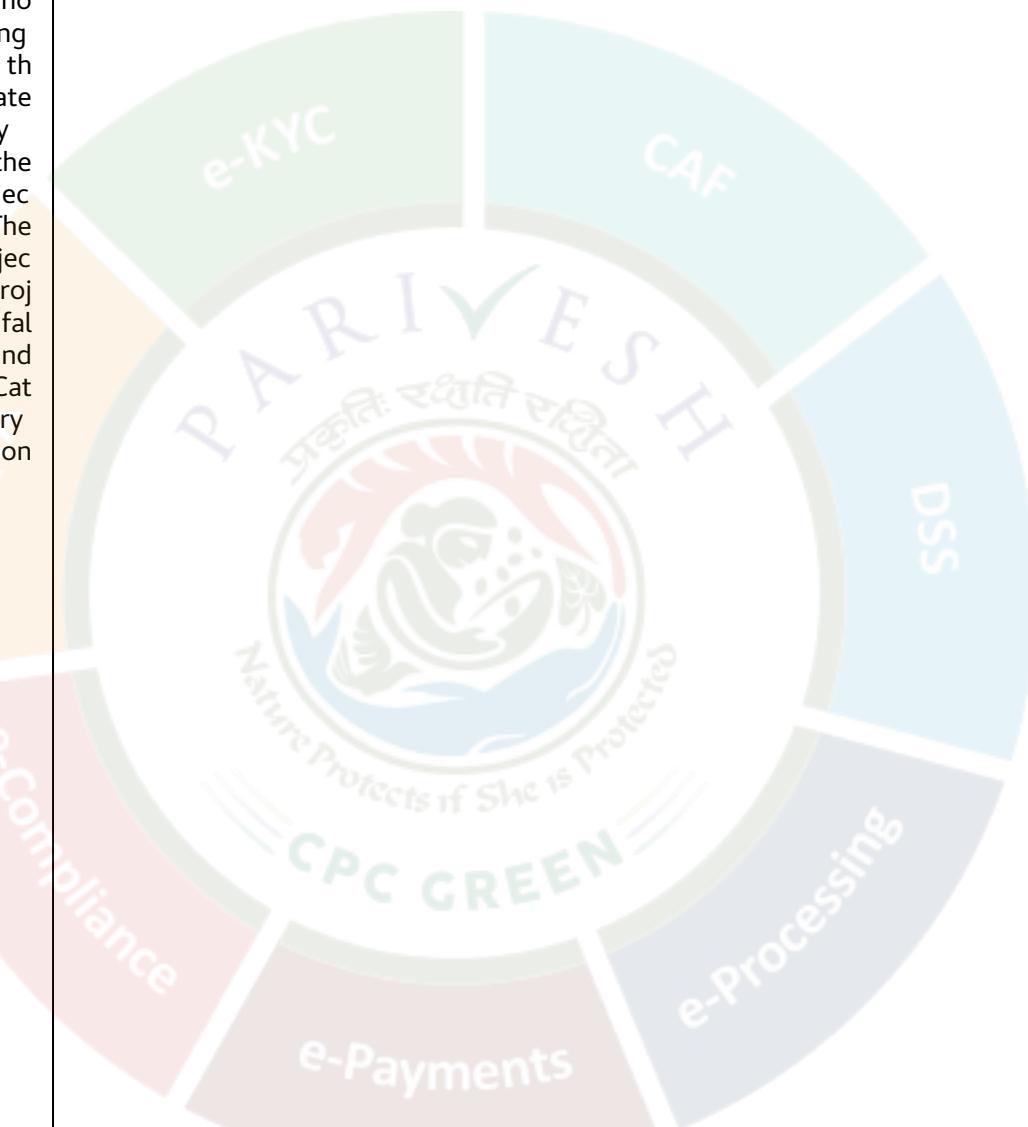
3.1.2. Project Salient Features

[Proposal no.: IA/AP/IND1/556936/2026: File No. IA-J-11011/403/2006-IA-II (I)]
 [Consultant: B. S. Envi-Tech Pvt Ltd; Valid upto: 15.05.2026]

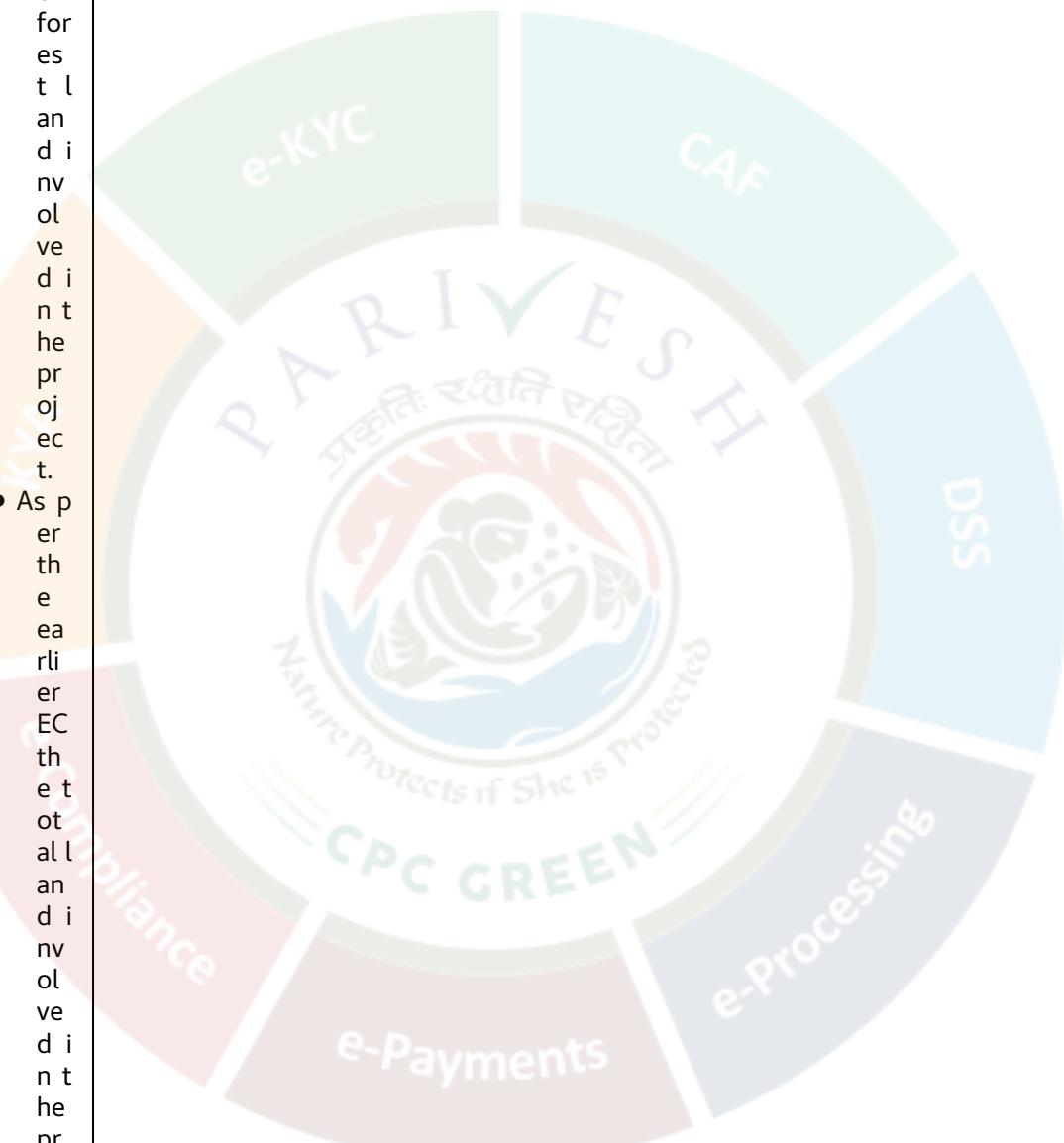
| S. N o. | Co ndi tio ns | Reply of PP |
|---------|--|-------------|
| | The project should have gone through the public hearing process, at least once, for its existing | |

| S. N o. | Co nditio ns | Reply of PP |
|---------|--|---|
| | EC capacity on which expansion is being sought, except those categories of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and it is same |  |

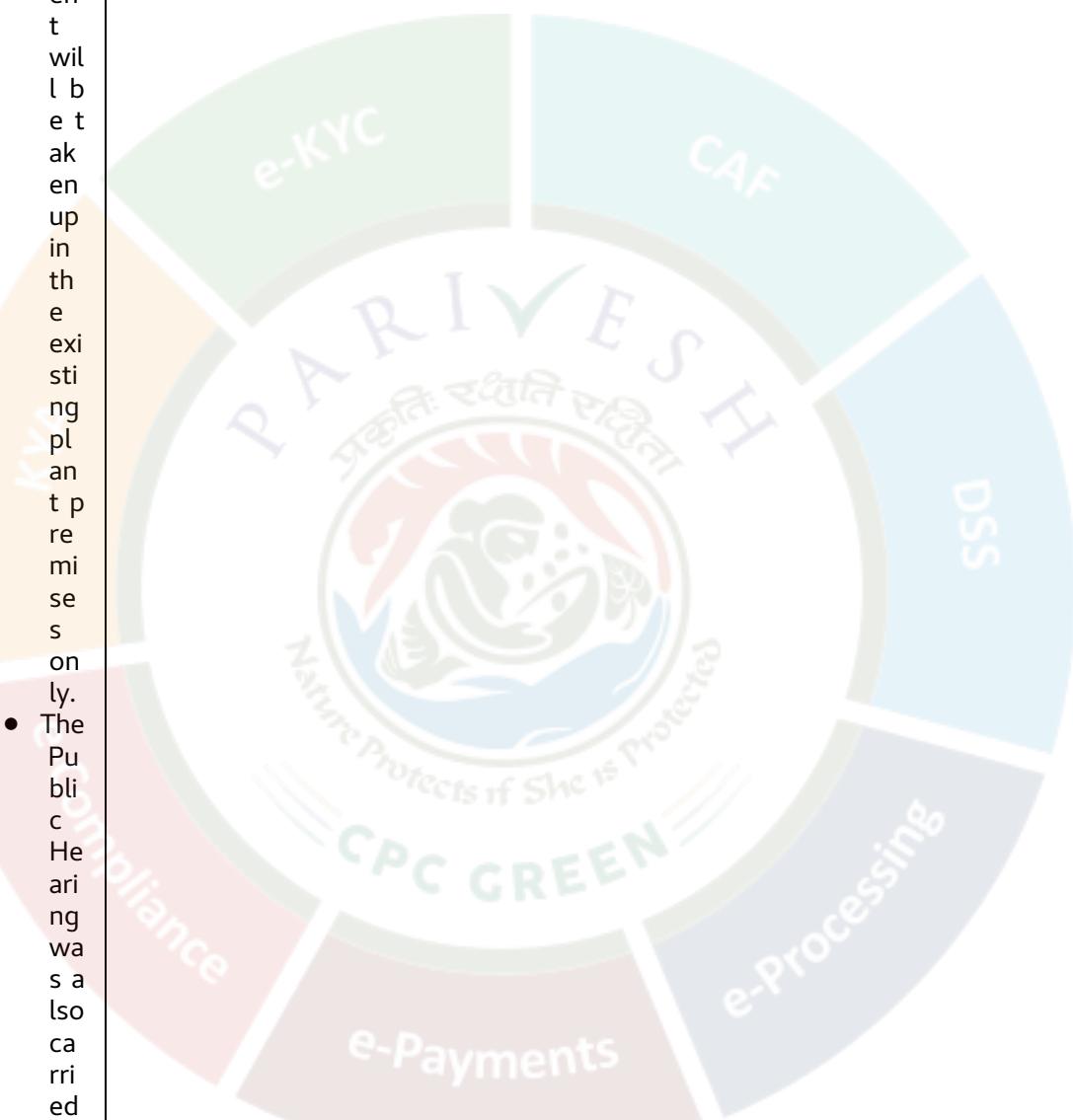
| S. N o. | Co nditio ns | Reply of PP |
|---------|--|---|
| | nd me nt s. | |
| | Th ere sh oul d n ot be cha ng e in Cat eg ory of t he pro jec t fr om 'B2' to 'B1' or 'A' du e t o p rop ose d mo der nis ati on or exp ans io n. | There is no chang e in th e cate gory of the projec t. The subjec t proj ect fal ls und er Cat egory "A" on ly. |
| | Th ere is n o a ddi tio nal lan d a | <ul style="list-style-type: none"> • Ther e i s n o ad dit io nal lan |



| S. N o. | Co nditio ns | Reply of PP |
|---------|---|--|
| | <p>cq uisi tio n o r fo res t la nd div ers ion inv olv ed for the pro po sed exp ans ion or the re i s n o i ncr eas e in lea se are a w ith reg ard to mi nin g vi s- a-v is t he are a me nti on ed in t he EC, bas</p> <ul style="list-style-type: none"> As per the earlier EC the ot all an di nv ol ve di nt he pr oj ec ti s 32 9 H a. The pr op os | <p>d ac qu isit io n or for es t l an di nv ol ve di nt he pr oj ec ti s 32 9 H a.</p> |



| S. N o. | C o n d i t i o n s | Reply of PP |
|---------|---|---|
| | <p>ed on which public hearing has been held earlier.</p> <ul style="list-style-type: none"> • The Public Hearing was also carried out for these areas. | <p>ed on ha nc e m en t wil l b e t ak en up in the existing plant premises only.</p> |
| | The e p | The current |



| S. N o. | C o n d i t i o n s | Reply of PP |
|---------|---|--|
| | <p>ropose d e xpa nsi on sha ll n ot be mo re t ha n 5 0% of pro du cti on cap acit y a s me nti on ed in t he pri or EC, iss ue d o n t he bas is o f p ubl ic h ear ing hel d a nd the sa me sha ll b e al lo</p> | <p>propo sal se eks a 26.4% increa se in c linker produ ction, a 40 % incr ease i n cem ent pr oducti on an d 5.5 % incr ease i n Was te He at Rec overy Powe r.</p> |



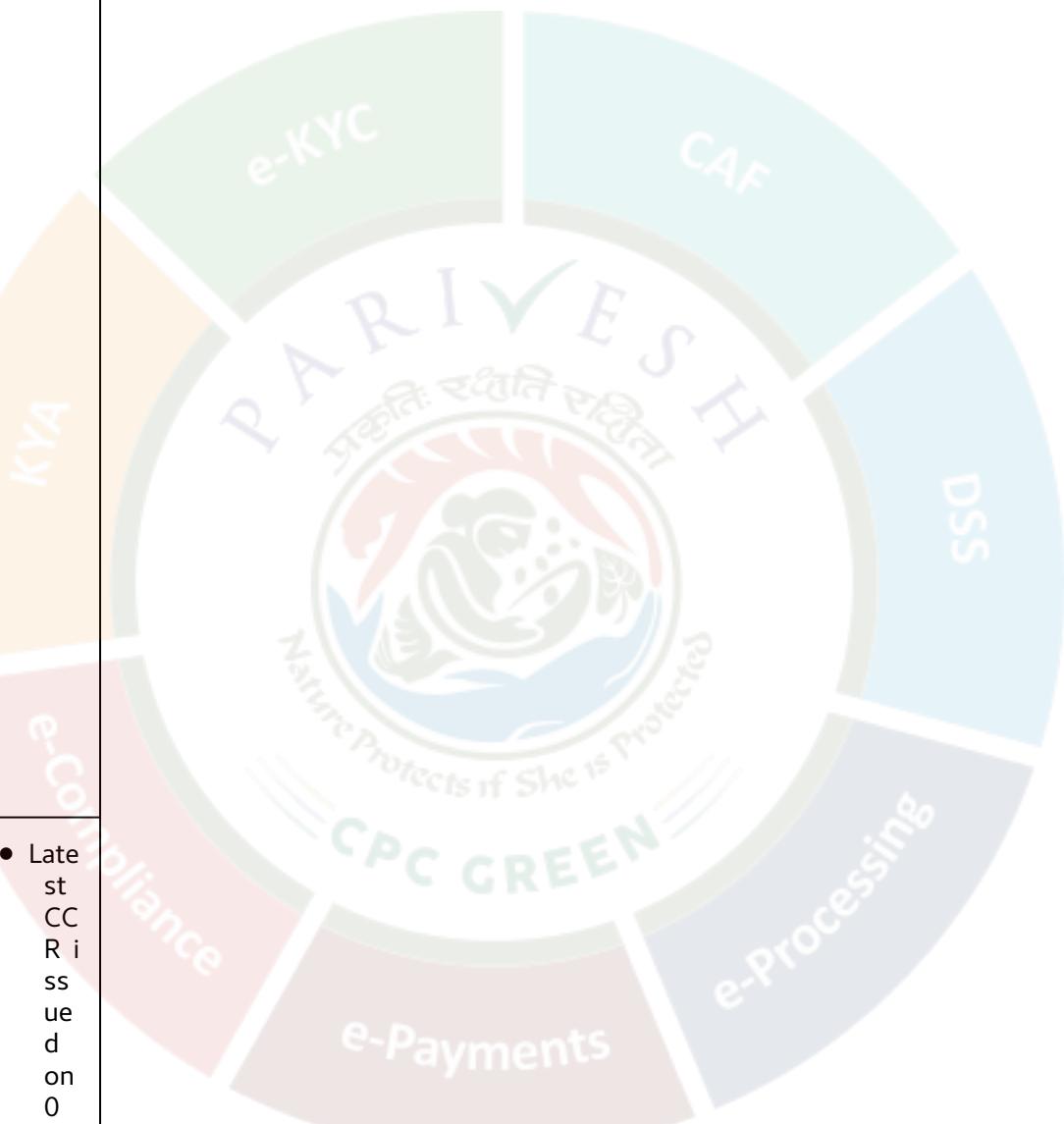
| S. N o. | C o n d i t i o n s | Reply of PP |
|---------|---|---|
| | we d i n mi ni mu m t hre e p has es. | |
| | Pre dic ted env iro nment al qu alit y p ara me ter s a risi ng out of pro po sed exp ans ion / m od ern izat ion sha ll b e wit hin the pre scri be d n or ms an | The p redic ted en viron mental qual ity pa ramete rs of pro po sed ex pansi on are within the pre scrib ed no rms. |



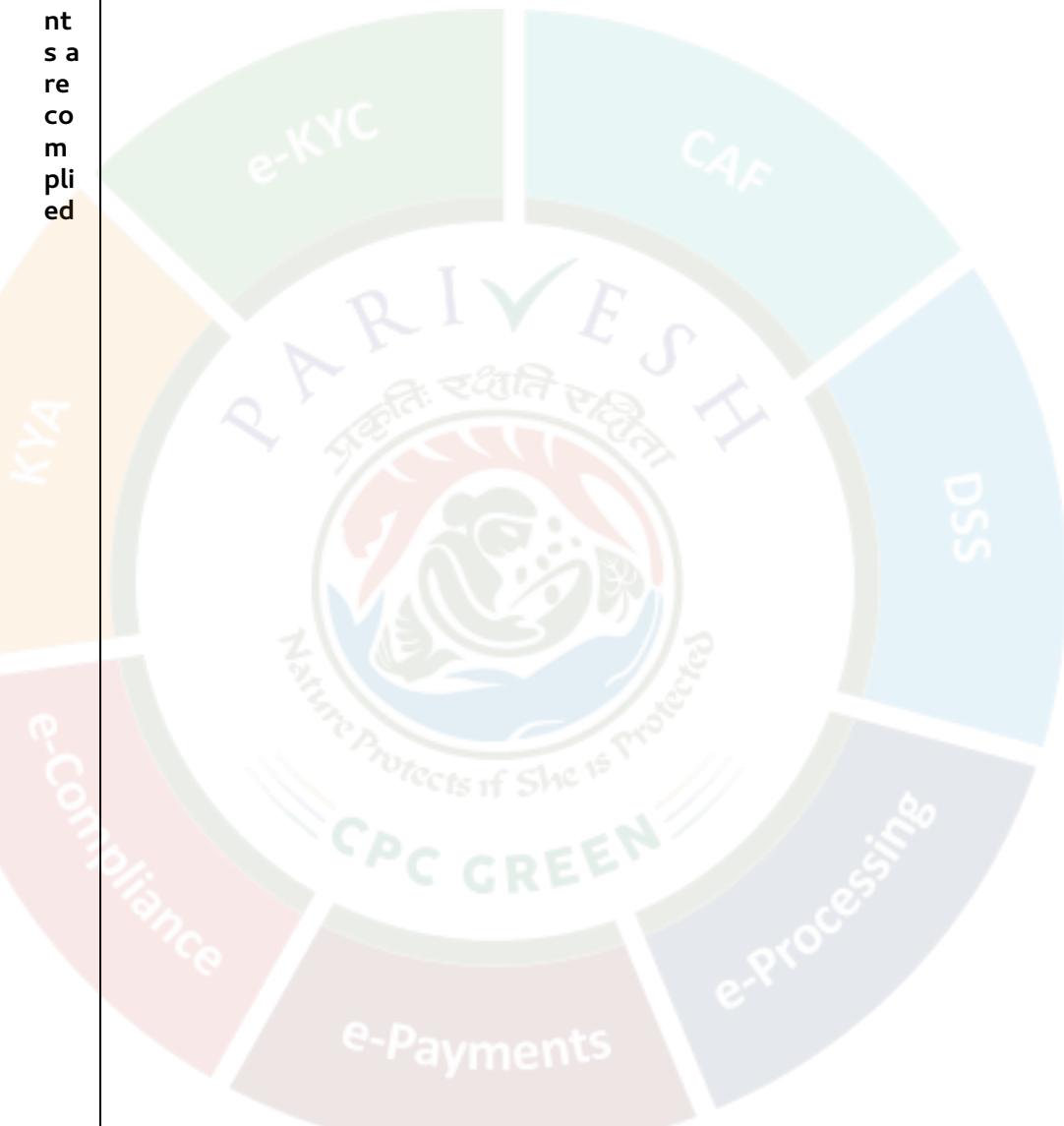
| S. N o. | C o n d i t i o n s | Reply of PP |
|---------|---|---|
| | d t he sa me sha ll b e mai nta ine d a s p er pre scri be d n or ms. | |
| | The p rop ose d e xpa nsi on sh oul d n ot res ult in r ed uct ion in t he gre en bel t ar ea as sti pul ate d i n t he ear lier EC, | TRCL has d evelo ped g reenb elt in an are a of 1 30.24 Ha (3 9.5 9%). T he gre enbelt area will b e mai ntaine d at n ot les s than 33.3 3%. |



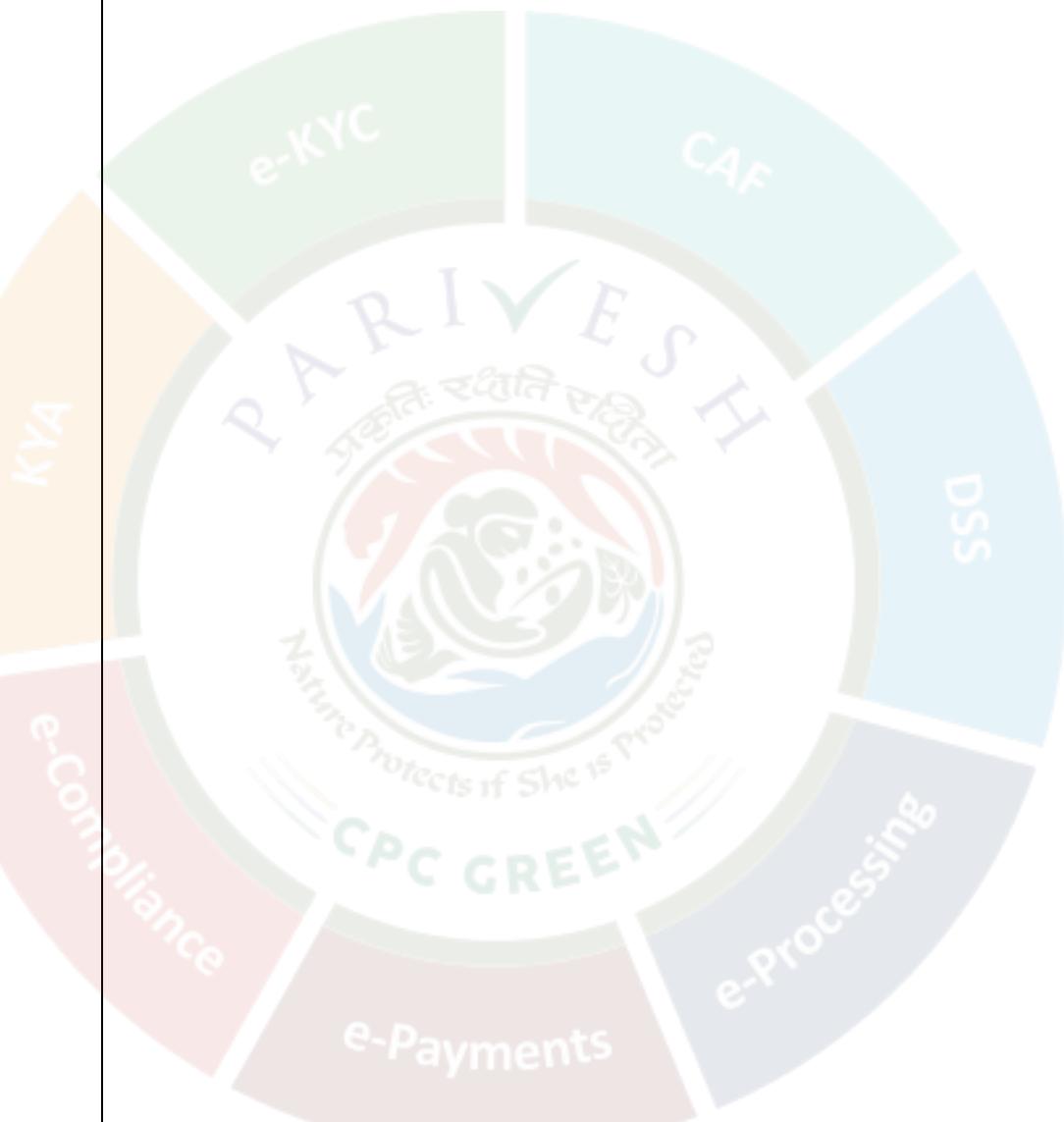
| S. N o. | C o n d i t i o n s | Reply of PP |
|---------|--|--|
| | or if the existing ratio of green belt is more than 33%, after expansion it should not reduce below 33%. | KYA |
| | The project proposal submitted on 01.01.2026 satisfactorily complies the conditions. | <ul style="list-style-type: none"> • Late st CC R iss ue d on 0 1. 0 1. 20 26. • Site ins pe ct ed on 0 2 3. |



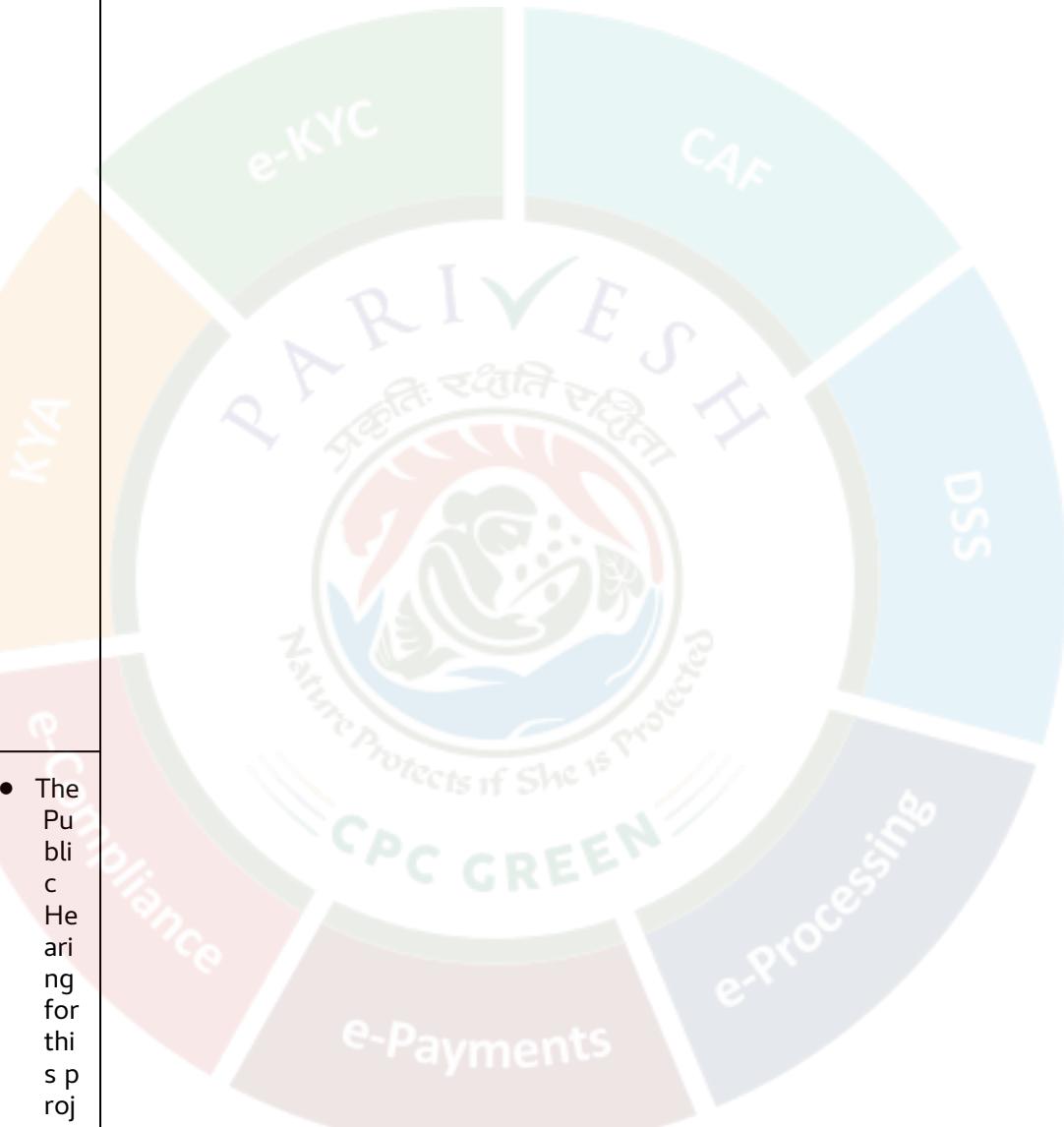
| S. N o. | C o n d i t i o n s | Reply of PP |
|---------|--|--|
| | <p>tio ns sti pul ate d i n t he exi sti ng EC(S) an d s atis fac tori ly f ulfi lle d a ll t he co m mit me nts ma de dur ing the ear lier pu blic hea rin g/ co nsu ltat ion pro cee din gs an d a lso the co m</p> | <p>1 2. 20 2 5. ● All P oi nt s a re co m pli ed</p> |



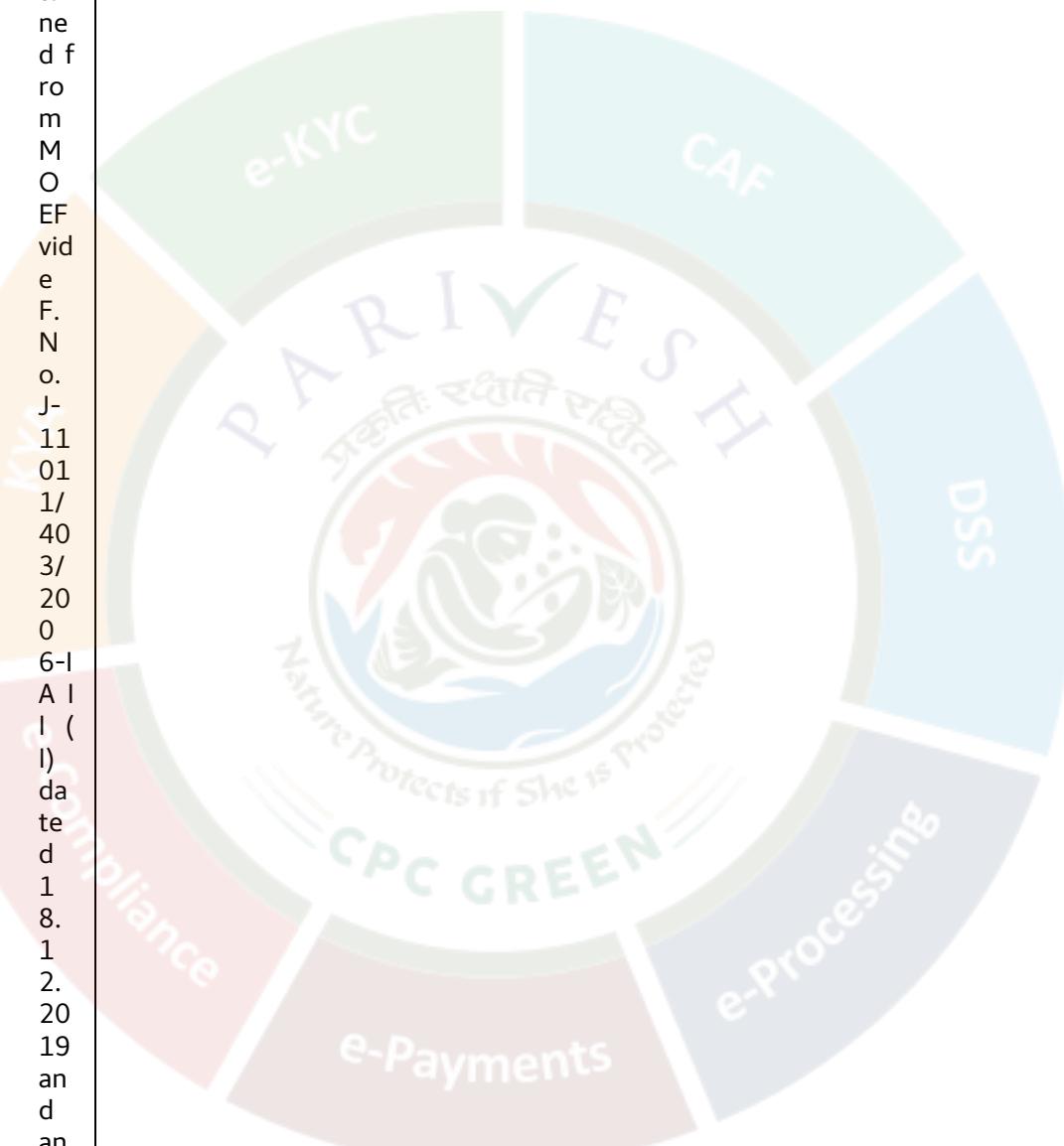
| S. N o. | Co nditio ns | Reply of PP |
|---------|--|-------------|
| | <p>mit me nts giv en whi le gra nti ng pre vio us exp ans io n, as ma y b e a ppl ica bl e. Thi s s hall be dul y r ec ord ed in t he cer tifi ed co mp lian ce rep ort iss ue d b y t he IR O/ CP C/ B/</p> | |



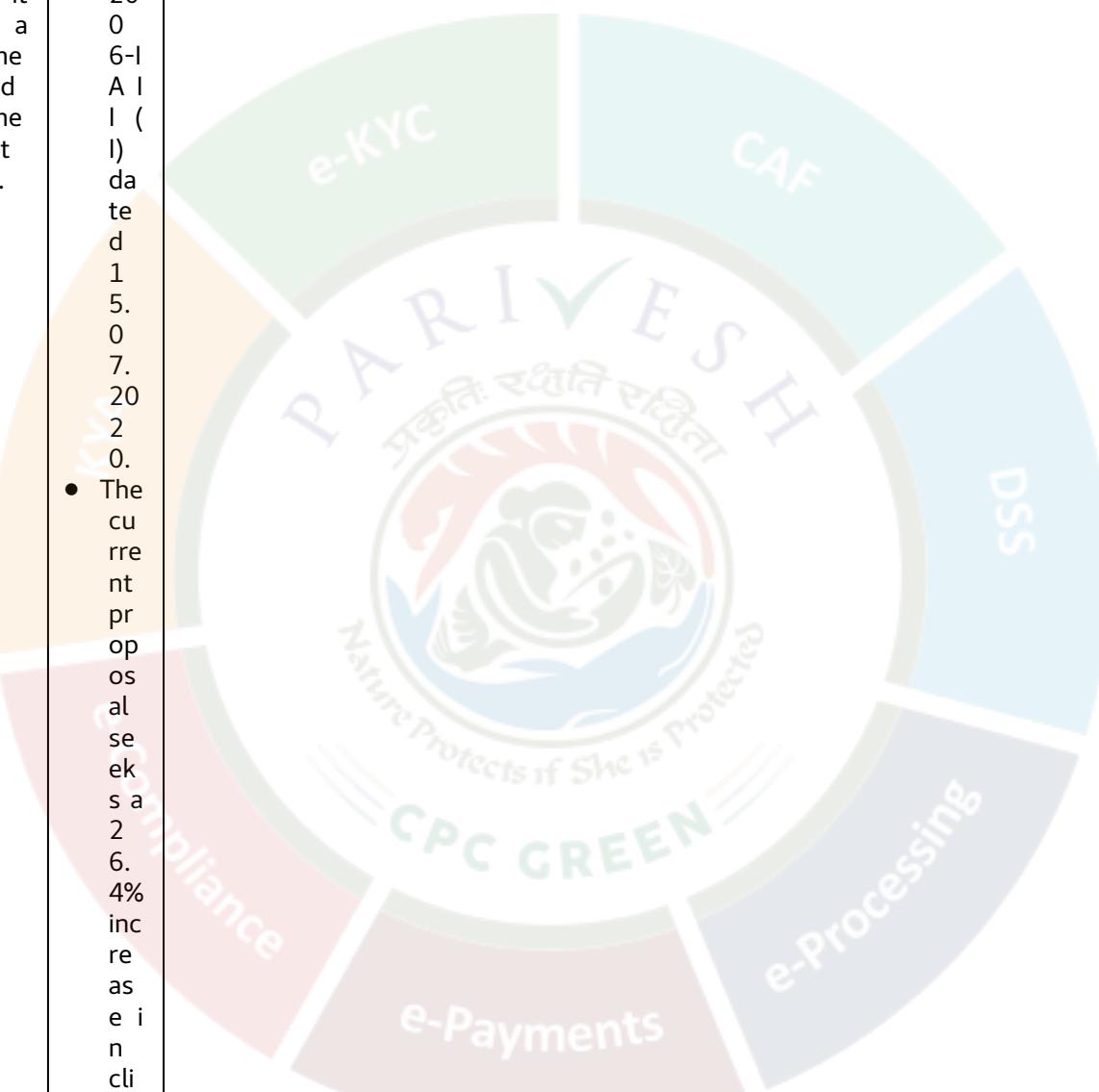
| S. N o. | C o n d i t i o n s | Reply of PP |
|---------|---|---|
| | SP CB, which should not be more than one year old at the time of submission of application. | |
| | Public Consultation shall be undertaken [if applicable] as per tabular below | <ul style="list-style-type: none"> The Public Hearing for this project was held on 28th June 2021. |



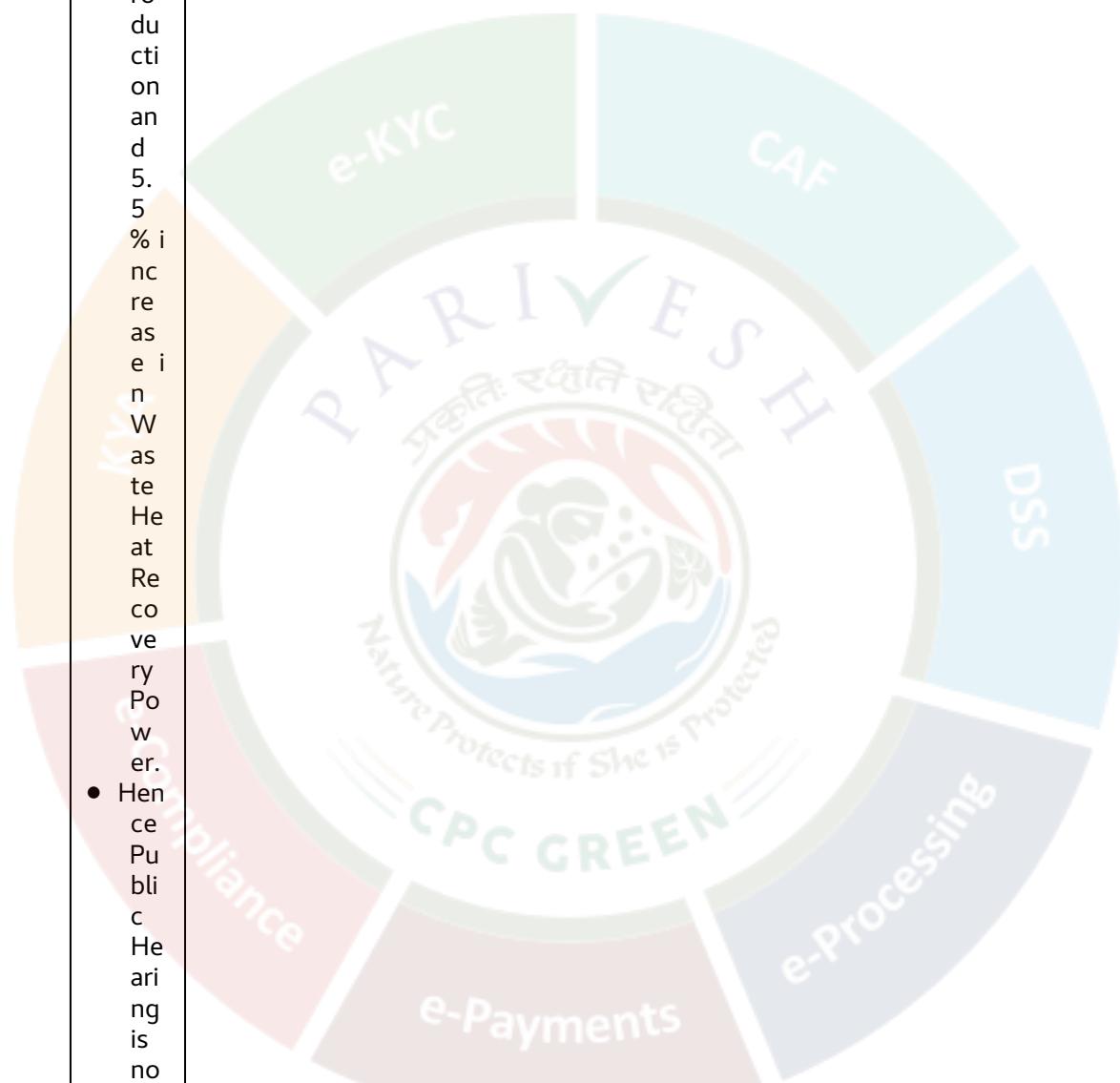
| S. N o. | C o n d i t i o n s | Reply of PP |
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| | by obtaining response in writing, as per para 7 III (ii) (b) of EIA No tification on 20/06, except those categories of projects which have been exempted as per para 7 III (i) of EIA No. | <ul style="list-style-type: none"> 9. The EC was obtained from M.O.EF vide e. F. N. o. J-11/01/40/3/20/0/6-I A I I (I) dated 18.1.2019 and annexed to the application for grant of environmental clearances under section 7(1)(b) of the EIA Notification, 2006, in respect of the proposed project, which has been exempted under section 7(1)(i) of the EIA Notification, 2006, vide F. N. o. |



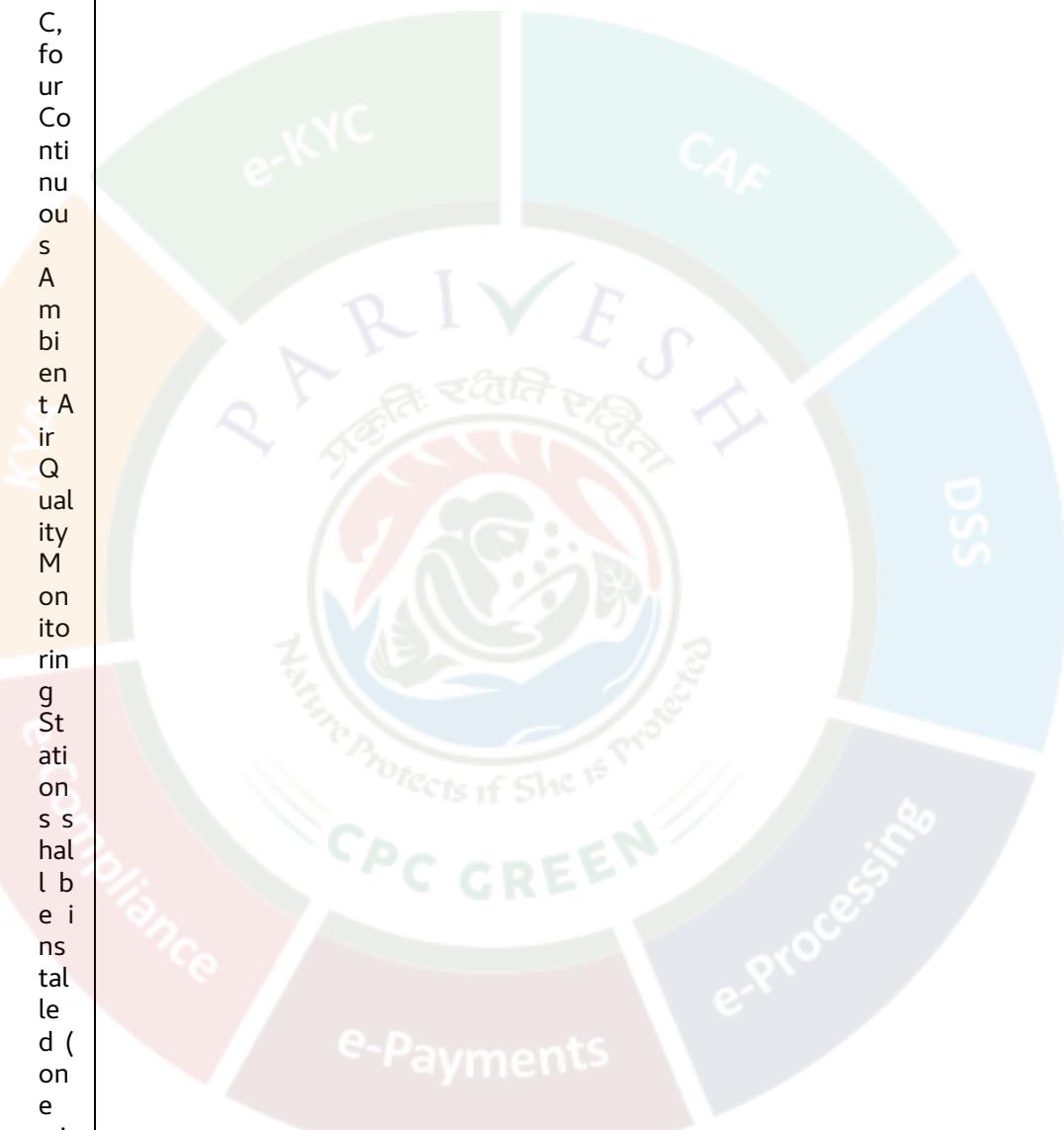
| S. N o. | C o n d i t i o n s | Reply of PP |
|---------|--|---|
| | <p>tifi cati on 20 06 an d it s a me nd me nt s.</p> <p>11 01 1/ 40 3/ 20 0 6-I A I I (I) da te d 1 5. 0 7. 20 2 0.</p> <ul style="list-style-type: none"> • The current proposal seeks a 26.4% increase in client production, a 40% increase | <p>J- 11 01 1/ 40 3/ 20 0 6-I A I I (I) da te d 1 5. 0 7. 20 2 0.</p> |



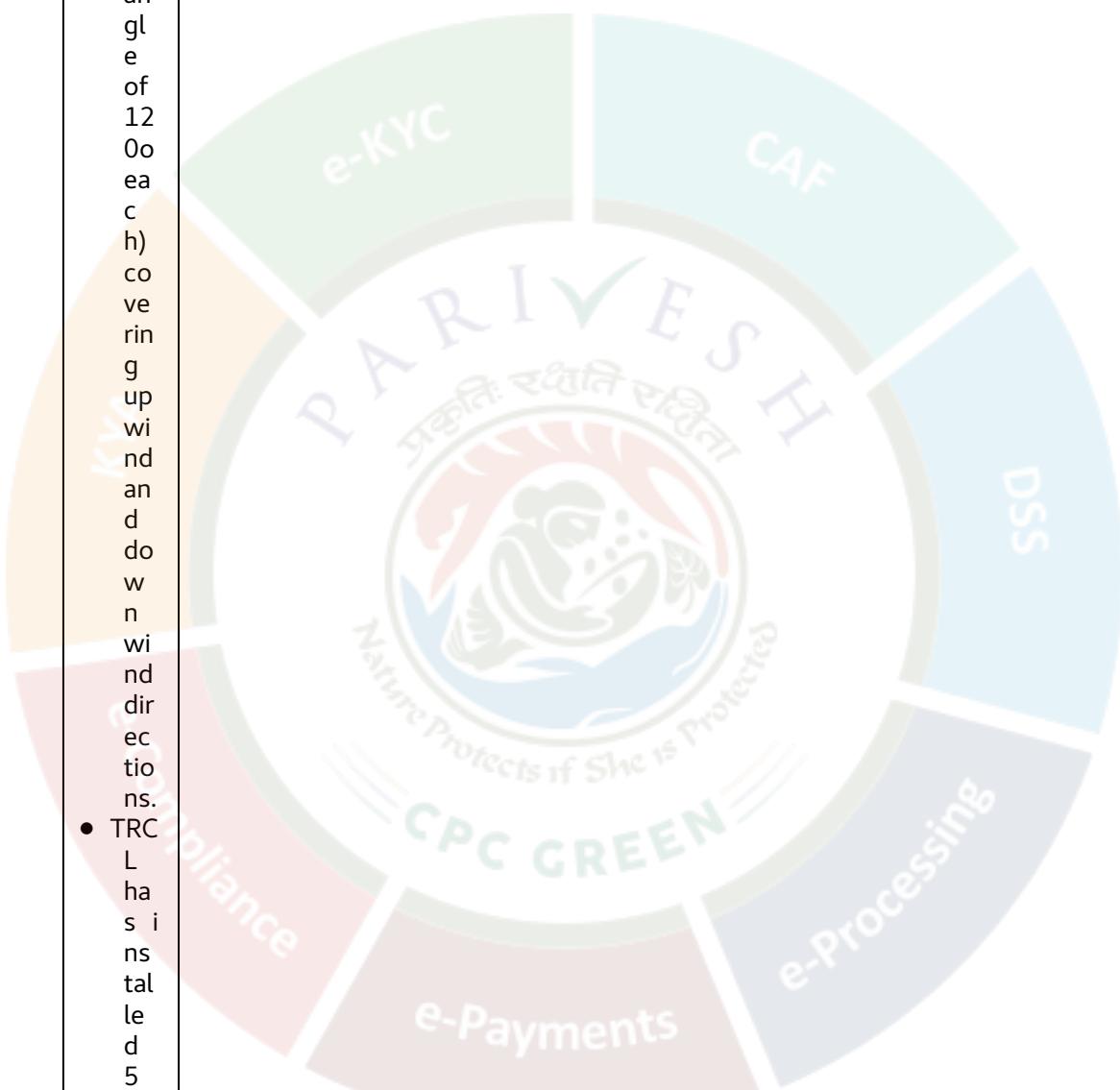
| S. N o. | Co nditio ns | Reply of PP |
|---------|---|---|
| | <p>e i n ce m en t p ro du cti on an d 5. 5 % i nc re as e i n W as te He at Re co ve ry Po w. • • Hen ce Pu bli c He ari ng is no t a pp lic ab le for thi s p roj ec t.</p> | <p>e i n ce m en t p ro du cti on an d 5. 5 % i nc re as e i n W as te He at Re co ve ry Po w. • • Hen ce Pu bli c He ari ng is no t a pp lic ab le for thi s p roj ec t.</p> |
| | Effl | • As p |



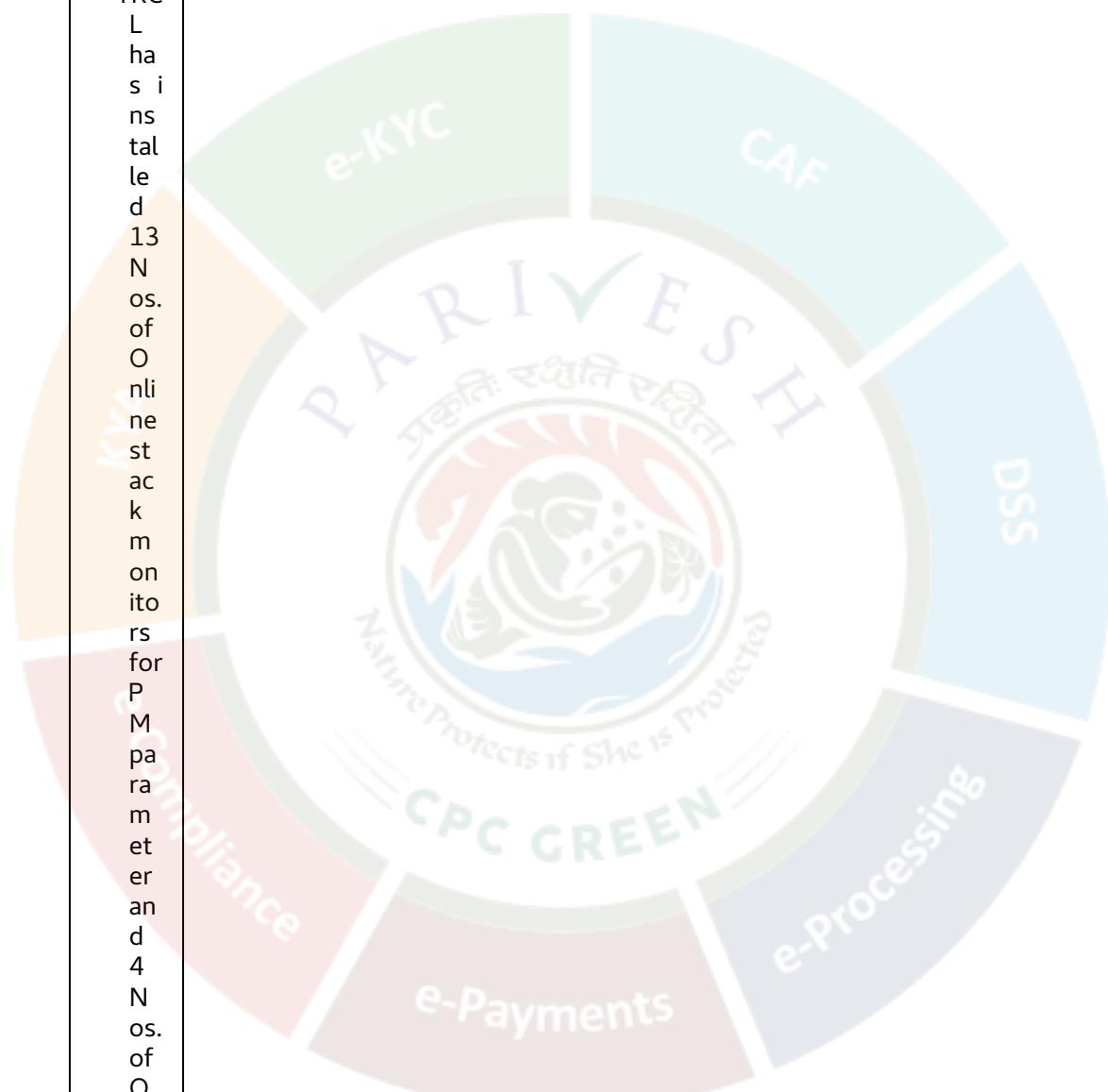
| S. N o. | C o n d i t i o n s | Reply of PP |
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| | ue nt mo nit ori ng incl udi ng air qu alit y mo nit ori ng sys te ms as spe cifi ed in t he exi sti ng EC, if s tip ula te d, s ho uld hav e b ee n i nst alle d. | er th e exi sti ng E C, fo ur Co nti nu ou s A m bi en t A ir Q ual ity M on ito rin g St ati on s s hal l b e i ns tal le d (on e wi thi n an d t hr ee ou tsi de th e pl |



| S. N o. | C o n d i t i o n s | Reply of PP |
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| | | <p>an t a re a a t a n an gl e of 12 00 ea c h) co verin g up wi nd an d do w n wi nd dir ec tio ns.</p> <ul style="list-style-type: none"> • TRC L ha s i ns tal le d 5 N os. of O n-l ine Re al Ti m e CA A |



| S. N o. | Co ndi tio ns | Reply of PP |
|---------|---------------|---|
| | | <p>Q M st ati on s.</p> <ul style="list-style-type: none"> • TRC L ha s i ns tall e d 13 N os. of O nli ne st ac k m on ito rs for P M pa ram et er an d 4 N os. of O nli ne st ac k m on ito rs for S O |



| S. N o. | C o n d i t i o n s | Reply of PP |
|---------|---------------------|--|
| | | 2 & N Ox parameters. |
| | | <p>As per the CCR dated 23.12.2024, the Regional Office (RO), identified several Environmental Clearance (EC) conditions as pending with or non-complied. In response, TRCL submitted the ATR (ATR) on 19.07.2025.</p> <p>In this context, TRCL submitted a request to MoEF&CC on 19.11.2025, seeking issuance of the closure report. Subsequently, MoEF&CC, vide communication dated 19.11.2025, advised the Sub-Regional Office, Vijayawada, to furnish its comments with reference to the closure report. Further, as the validity of the earlier CCR dated 23.12.2024 has lapsed one year from the date of inspection, in accordance with the EC Memorandum dated 08.06.2022 and since the previous inspection was completed one year, the project was re-inspected on 23.12.2025 by the Regional Office, Vijayawada, MoEF&CC. Accordingly, a detailed point-wise status of EC conditions was prepared and issued vide E-Filing No. EPA/EC-1/101/04-57/2024/304 dated 01.01.2026. Certified copy of the reports is submitted.</p> |
| | | <p>As per the earlier Environmental Clearance dated 18.12.2018 (see on Page No. 2), the total plant area is 329 ha, and the greenbelt is to be developed over an area of about 172.745 ha (52.5%). The proposed greenbelt over an area of 174.9 ha, accounting for about 53% of the total plant area.</p> <p>To ascertain the extent of greenbelt available within the plant areas, a study was undertaken by M/s. Creative Engineers and Architects, Chennai. The study indicates that about 174.90 ha of the plant area is covered with vegetative cover, of which 136.21 ha falls under the high-density category and 38.69 ha falls under the medium to low-density category. The report is submitted.</p> <p>The same details have been reflected in the latest Compliance Certificate (CCR), and accordingly, the stipulated condition stands complied.</p> |
| | | <p>The notarized English translation of the land documents are uploaded on the Parivesh Portal and are submitted.</p> <p>A No Objection Certificate (NOC) has been issued by the District Forest Officer (DFO), NTR Division, Government of Andhra Pradesh, vide NOC/44/2019/TO dated 22.10.2025. The certificate confirms that the project site does not involve any forest land and that there is no proximity to the nearest Reserve Forest. The NOC has been uploaded on the Parivesh Portal and is submitted.</p> |

| | | <p>There are 4 Nos. of Schedule – I species reported in the study area under Wild Life (Protection) Amendment, 2022. To protect these Sunda Bushy-tailed Langur, TRCL have prepared the Wildlife conservation plan with a financial outlay of Rs. 101.25 Lakhs.</p> <p>The Wildlife Conservation Plan is approved by Principal Chief Conservator of Forests (WL) and Chief Wildlife Warden, AP vide Rc. No. 2/WL-2 dated 11.06.2024 with a financial outlay of Rs. 101.25 Lakhs. A sum of Rs. 35.0 lakh has already paid as Rs. 35.0 lakh on 29.11.2024 & Rs. 66.25 lakh on 11.06.2025.</p> <p>In addition to above, TRCL has deposited Rs. 15.00 lakhs for the construction of Butterfly Park near Mulapadu road of Vijayawada Range of the Forest of Andhra Pradesh under CSR activity for the year 2023-24.</p> <p>The approval and monitoring of implementation status of the Wildlife Conservation Plan fall within the statutory mandate of the Forest Department. The implementation and compliance is ensured as per the conditions stipulated by the Forest Department.</p> <p>TRCL requested to provide the details of implementation status of the Wildlife Conservation Plan to PCCF vide letter dated 15.11.2025 and the current implementation status will be furnished as and when required by the Forest Department.</p> | | | | | | | | | | |
|--------|--------------------------------------|--|-------------------------|------------------|---------------------|-------------------------|--------------|---|--------------------------------------|---|-----|----------|
| | | <p>TRCL has obtained NOC from Panchayat Raj & Rural Development Department and the Administrator, APWALTA, Govt. of Andhra Pradesh for the proposed expansion of 7000 m³/day of dewatered Mine Seepage Water for the Jayanthipuram, Coal based Captive Thermal Power plant, Waste Heat Recovery Colony and associated 5 Nos. of Captive Limestone Mines located in Jayanthipuram Village, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh. The NOC was issued on 13.11.2021, which is valid up to 12.11.2024.</p> <p>TRCL has submitted the renewal application on 23.08.2024, which were conducted by the Ground Water Department, Government of Andhra Pradesh, and the study report has been forwarded to the Panchayat Raj & Rural Development Department and the Administrator, APWALTA, Government of Andhra Pradesh.</p> <p>TRCL has further approached to Panchayat Raj & Rural Development Department and the Administrator, APWALTA on 15.11.2025 and the same is currently under process.</p> | | | | | | | | | | |
| | | <p>The major raw material for the manufacture of Cement is Limestone, which is sourced from the Captive Limestone Mines of existing and proposed cement plants, located adjacent and in the vicinity to the Cement Plant. The limestone requirement of the plant after the expansion is estimated to be 7.78 MTPA. TRCL has obtained Environmental Clearance (EC) for the limestone mines as per the table below.</p> <p>ENVIRONMENTAL CLEARANCE (EC) ORDERS FOR DIFFERENT CEMENT PLANTS</p> <table border="1"> <thead> <tr> <th>S. N o</th> <th>Name of the mine</th> <th>Latest EC Reference</th> <th>Approved Quantity, MTPA</th> <th>Distance, km</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Jayanthipuram Limestone Mine (North)</td> <td>J-11015/377/2006-I A.II(M) dated 18.05.2007</td> <td>1.8</td> <td>Adjacent</td> </tr> </tbody> </table> | S. N o | Name of the mine | Latest EC Reference | Approved Quantity, MTPA | Distance, km | 1 | Jayanthipuram Limestone Mine (North) | J-11015/377/2006-I A.II(M) dated 18.05.2007 | 1.8 | Adjacent |
| S. N o | Name of the mine | Latest EC Reference | Approved Quantity, MTPA | Distance, km | | | | | | | | |
| 1 | Jayanthipuram Limestone Mine (North) | J-11015/377/2006-I A.II(M) dated 18.05.2007 | 1.8 | Adjacent | | | | | | | | |

| S. N o | Name of the mine | Latest EC Reference | Approved Quantity, MT PA | Distance, km | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--------------------------|------------------------|-------------|-----------|------------------|-----------------------|----------------------|------|--|--|--|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------|----------------------|---|---|---------------|---|-------|---|---|---|---|---|---|---------|--|---|-------------|-------------|---|---|---|---------------------|---|----------------|--|---|------|-------|---|---|---|---|-----|---|---|---------------|---|---|---|---|---|---|---|---|----------|--|--|--|-------------|--|--|--|--|--|----------------|--|-----|------|------|------|------|------|---|------|
| 2 | Jayanthipuram Lime stone Mine (South Band) | SEIAA/AP/MIN/KRI/8/2019/ 1219/ 167.6&164.67 dated 26.10.2021 | 1.75 | 1.06 km - SSW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Ravirala Lime stone Mine (RF) | SEIAA/AP/MIN/KRI/07/2020/ 1973/ 174.80 & 171.63 dated 05.03.2022 | 2.75 | 3.24 km - SSE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Ramco Budawada Lime stone Mine (RF) | J-11015/443/ 2014-I A.II(M) dated 09.07.2024 | 2.50 | Aerial - 1.62 km - SSW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Jayanthipuram East Band Lime stone Mine | SEIAA/AP/MIN/EC/NT/04/2025/ 1354/26 1.20 & 261.14 and dated 14.05.2025 | 1.20 | 1.56 km - S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | 10.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The Public Hearing was conducted earlier for this project on 28.06.2019. The status of implementation of the commitments made in the hearing till December 2025 including budgetary provision given below and the supporting documents regarding the same.</p> <p>Status of Commitments from the Public Hearing Held on 28.06.2019 and Action Plan (as of December 2025), Rs. In Lakhs</p> <table border="1"> <thead> <tr> <th rowspan="2">S. N o</th> <th rowspan="2">Activity</th> <th colspan="8">Year (Rs. Lakhs)</th> </tr> <tr> <th>2019-2020</th> <th>2020-2021</th> <th>2021-2022</th> <th>2022-2023</th> <th>2023-2024</th> <th>2024-2025</th> <th>2025-2026 complete d*</th> <th>2025-2026 Ongoing d*</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1</td> <td>Development of Jaggayyapet & nearby Hospitals</td> <td>Physical N o.</td> <td>-</td> <td>Covid</td> <td>1</td> <td>1</td> <td>-</td> <td>-</td> <td>2</td> <td>-</td> </tr> <tr> <td>Village</td> <td></td> <td>-</td> <td>Surrounding</td> <td>Jaggaiahpet</td> <td>-</td> <td>-</td> <td>-</td> <td>Budawada & DP Tanda</td> <td>-</td> </tr> <tr> <td>Budget Rs Lakh</td> <td></td> <td>-</td> <td>14.6</td> <td>33.20</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>2.1</td> </tr> <tr> <td rowspan="3">2</td> <td>Conducting free medical camps in surrounding villages</td> <td>Physical N o.</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Villages</td> <td></td> <td></td> <td></td> <td>Surrounding</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Budget Rs Lakh</td> <td></td> <td>4.0</td> <td>4.28</td> <td>4.82</td> <td>6.49</td> <td>10.0</td> <td>12.0</td> <td>-</td> <td>16.6</td> </tr> </tbody> </table> | | | | | S. N o | Activity | Year (Rs. Lakhs) | | | | | | | | 2019-2020 | 2020-2021 | 2021-2022 | 2022-2023 | 2023-2024 | 2024-2025 | 2025-2026 complete d* | 2025-2026 Ongoing d* | 1 | Development of Jaggayyapet & nearby Hospitals | Physical N o. | - | Covid | 1 | 1 | - | - | 2 | - | Village | | - | Surrounding | Jaggaiahpet | - | - | - | Budawada & DP Tanda | - | Budget Rs Lakh | | - | 14.6 | 33.20 | - | - | - | - | 2.1 | 2 | Conducting free medical camps in surrounding villages | Physical N o. | - | - | - | - | - | - | - | - | Villages | | | | Surrounding | | | | | | Budget Rs Lakh | | 4.0 | 4.28 | 4.82 | 6.49 | 10.0 | 12.0 | - | 16.6 |
| S. N o | Activity | Year (Rs. Lakhs) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2019-2020 | 2020-2021 | 2021-2022 | 2022-2023 | 2023-2024 | 2024-2025 | 2025-2026 complete d* | 2025-2026 Ongoing d* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Development of Jaggayyapet & nearby Hospitals | Physical N o. | - | Covid | 1 | 1 | - | - | 2 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Village | | - | Surrounding | Jaggaiahpet | - | - | - | Budawada & DP Tanda | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Budget Rs Lakh | | - | 14.6 | 33.20 | - | - | - | - | 2.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Conducting free medical camps in surrounding villages | Physical N o. | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Villages | | | | Surrounding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Budget Rs Lakh | | 4.0 | 4.28 | 4.82 | 6.49 | 10.0 | 12.0 | - | 16.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| S. N o | Activity | Year (Rs. Lakhs) | | | | | | | | 2025-2 026 co mplete d* | 2025-2 026 dge d* |
|--------|--|------------------|---|---------------------------------------|-----------------------------|-----------------------------|---------------------|--|------------------------|-------------------------|-------------------|
| | | 2019- 2020 | 2020-202 1 | 2021-20 22 | 2022-20 23 | 2023-2 024 | 2024-202 5 | 2025-2 026 co mplete d* | | | |
| | es & free medicines | | | | | | | | | | |
| 3 | Conducting eye testing camps & veterinary camps | Physical N o. | 02 | - | - | - | - | 4 eye camps | 2 veteri nary ca mps | - | - |
| | | Villages | Surroundi ng | - | - | Surrounding | | | | | |
| | | Budget Rs Lakh | 0.95 | - | - | 0.40 | 1.0 | 1.0 | - | 2.0 | |
| 4 | Supply of drinking water through RO plants to surrounding villages | Physical N o. | - | 2 | 1 | 1 | - | - | 3 | | |
| | | Village | - | Jayanthip uram & D P Thanda | Nawabpe t | Ravirala | - | - | Budawa da & Jaggiahpet | | |
| | | Budget Rs Lakh | - | 12.7 | 2.38 | 3.03 | | | | 15. | |
| 5 | Domestic water supply schemes that is construction of water tanks, laying water pipeline networks and providing drinking water to water tankers. | Physical N o. | 4 | 3 | 2 | 2 | 2 | 2 | | | 5 |
| | | Village | Jayanthip uram SC Colony, Bud awada, Ravirala & DP Thanda | Jayanthip uram, Bud awada & DP Thanda | Jayanthip uram & D P Thanda | Jayanthip uram & D P Thanda | Surroun ding | Jayanthip uram (35 KL Water tank) & Ravirala | - | Surroun ding | |
| | | Budget Rs Lakh | 5.0 | 1.1 | 2.81 | 13.43 | 0.82 | 14.86 | - | 8.1 | |
| 6 | Providing saplings to villages & tree guards | Physical N o. | - | - | - | 1 | - | - | - | - | - |
| | | Village | - | - | | Jayanthip uram | - | - | - | - | - |
| | | Budget Rs Lakh | - | - | | 2.75 | - | - | - | - | - |
| 7 | Skill development programmes under Apprentices | Physical N o. | - | Nearly 40 students | Nearly 40 students | Nearly 40 students | Nearly 40 stud ents | Nearly 40 students | Nearly 60 students | | - |
| | | Villages | - | Surrounding | | | | | | | |
| | | Budget Rs Lakh | - | 25 | 24.8 | 25.50 | 25 | 25 | 46 | | - |

| S. N o | Activity | Year (Rs. Lakhs) | | | | | | | | 2025-2026 co mplete d* | 2025-2026 dge d* |
|--------|---|--|-----------------------------|----------------------|-----------|-----------|---|-----------------|-----------|------------------------|------------------|
| | | 2019-2020 | 2020-2021 | 2021-2022 | 2022-2023 | 2023-2024 | 2024-2025 | 2025-2026 | 2025-2026 | | |
| | hip, Project work, Trainings shall be given to local educated youth | | | | | | | | | | |
| 8 | Admission to local students in company school | Physical N o. | - | - | - | 680 | 680 | 680 | - | - | - |
| | | Villages | - | Surrounding | | | | | - | - | - |
| | | Budget Rs Lakh | - | - | 1.84 | 2 | 2 | 2 | - | - | - |
| 9 | Development of temples and worship places | Physical N o. | 1 | 2 | | - | - | 1 | 1 | - | - |
| | | Villages | Surrounding (Lingala) | | - | - | - | Surrounding | | | - |
| | | Budget Rs Lakh | 46.19 | 0.83 | - | - | - | 4.98 | 1.79 | - | - |
| 10 | Supply of water to Agriculture Lands surrounding villages | Physical N o. | - | - | - | 1 | - | 1 | - | - | - |
| | | Villages | Surrounding (Jayanthipuram) | | | | | | | - | - |
| | | Budget Rs Lakh | - | - | | | | 3.87 | - | - | - |
| 11 | | Physical N o. | 1 | 2 | - | - | 3 | 2 | - | - | - |
| | | Villages | Ravirala | Ravirala & DP Thanda | - | - | Surrounding (Jayanthipuram, Agaraharam, Ravirala) | | | | - |
| | | Budget Rs Lakh | 1.53 | 5.98 | - | - | 18.20 | 21.89 | - | 55. | Sub To |
| | | e-Payments | | | | | | | | | |
| | | The Engineering Layout showing the existing EC-approved layout and the proposed layout is in pink colour is submitted | | | | | | | | | |
| | | A comparative statement of resource requirements with respect to materials, water, and power has been prepared, comparing the earlier Environmental Clearance dated 18.12.2019 with the proposed expansion scenario. The details are presented in the table below. | | | | | | | | | |
| | | COMPARATIVE STATEMENT OF RESOURCE REQUIREMENTS | | | | | | | | | |
| | | | Sl. No | Description | | | Earlier EC dated 18.12.2019 | After Expansion | | | |
| | | | 1 | Land, ha | | | 329 | 329 | | | |

ough existing and upgraded pollution control measures, continuous stack monitoring, and adherence to bed emission standards.

POLLUTION LOAD - AIR Environment, Kg/day

| S. No | Source | Before Expansion | After Expansion |
|-------|-------------------|------------------|-----------------|
| 1 | Kiln-I | PM | 384 |
| | | SO ₂ | 1280 |
| | | NOx | 7679 |
| 2 | Kiln-II | PM | 311 |
| | | SO ₂ | 1037 |
| | | NOx | 8297 |
| 3 | Kiln-III | PM | 255 |
| | | SO ₂ | 1274 |
| | | NOx | 7644 |
| 4 | Cooler - I | PM | 111 |
| 5 | Cooler - II | | 178 |
| 6 | Cooler - III | | 113 |
| 7 | Coal Mill - I | | 52 |
| 8 | Coal Mill - II | | 96 |
| 9 | Coal Mill - III | | 40 |
| 10 | Cement Mill - I | | 36 |
| 11 | Cement Mill - II | | 36 |
| 12 | Cement Mill - III | | 240 |

OVERALL POLLUTION LOAD - AIR ENVIRONMENT, Kg/day

| Parameter | Before Expansion, kg/day | After Expansion |
|----------------------------------|-----------------------------|-----------------|
| Particulate Matter, PM | 1,851 | 2,233 |
| Sulphur Dioxide, SO ₂ | 3,591 | 4,633 |
| Oxides of Nitrogen, NOx | 23,621 | 30,391 |

Due to the increase in Clinker production and also for increase in quantity of coal used for calcination, load also increases accordingly.

LOAD BASED EMISSION CALCULATION, Particulate Matter (PM)

| | Existing | After Expansion |
|-----------------------------------|-----------|-----------------|
| Clinker Production, TPA | 46,85,000 | 59,20,000 |
| Pollution Load, kg/Annum | 508197 | 630297 |
| Load Based Emission, Kg/T clinker | 0.1085 | 0.125 |
| Load Based Standard, Kg/T clinker | | |

WATER ENVIRONMENT:

The wastewater generated from domestic activities is treated in the Sewage Treatment Plant (STP) and effluent quality complies with the Consent for Operation (CFO) prescribed standards. The analysis of quality before and after treatment confirms effective reduction in BOD, COD, TSS, and Oil & Grease, in accordance with regulatory norms.

The pollution load calculations for wastewater parameters have been carried out considering treated ntrations and wastewater flow rates. The assessment indicates that the treated effluent pollution load is in permissible limits.

QUALITY OF WASTE WATER FROM STP

| S. No | Parameters | Results | | CTO Presc a |
|-------|------------------------------|-----------|------------|----------------|
| | | STP Inlet | STP Outlet | |
| 1 | pH | 6.37 | 6.82 | 5.5 |
| 2 | Oil & Grease, mg/l | 11.0 | 8.8 | 10 |
| 3 | Total Suspended Solids, mg/l | 120 | 68 | 100 |
| 4 | BOD for 3 days at 27°C, mg/l | 50 | 24 | 30 |

| | | | | |
|---|-----------|-----|----|----|
| 5 | COD, mg/l | 184 | 96 | <1 |
|---|-----------|-----|----|----|

POLLUTION LOAD CALCULATIONS FROM STP

| Sl. No | Parameters | STP Outlet Results | Waste water Generation, m ³ /day | Pol |
|--------|---|--------------------|---|-----|
| 1 | Oil & Grease, mg/l | 8.8 | 580 | |
| 2 | Total Suspended Solids, mg/l | 68 | 580 | |
| 3 | BOD for 3 days at 27 ⁰ C, mg/l | 24 | 580 | |
| 4 | COD, mg/l | 96 | 580 | |

QUALITY OF WASTE WATER FROM ETP

| S. No | Parameters | Results ETP Outlet | Stand |
|-------|---|-----------------------|-------|
| 1 | pH | 8.42 | 5.5 |
| 2 | Total Dissolved Solids, mg/l | 928 | 21 |
| 3 | Total Suspended Solids, mg/l | 50.6 | 1 |
| 4 | COD, mg/l | 62.3 | 2 |
| 5 | BOD for 3 days at 27 ⁰ C, mg/l | 23.6 | 1 |
| 6 | Oil & Grease, mg/l | 1.1 | 1 |

POLLUTION LOAD CALCULATIONS FROM ETP

| S. L. N. o | Parameters | ETP Outlet Results | Waste water Generation, m ³ /day | Pollution I |
|------------|---|--------------------|---|-------------|
| 1 | Total Dissolved Solids, mg/l | 928 | 700 | 6 |
| 2 | Total Suspended Solids, mg/l | 50.6 | 700 | 3 |
| 3 | COD, mg/l | 62.3 | 700 | 4 |
| 4 | BOD for 3 days at 27 ⁰ C, mg/l | 23.6 | 700 | 1 |
| 5 | Oil & Grease, mg/l | 1.1 | 700 | 0 |

There is no change in wastewater generation quantity from the Cement plant and domestic sources posed expansion. Treated wastewater continues to be reused within the plant premises, supporting discharge.

SOLID & HAZARDOUS WASTE:

The increase in solid waste generation, primarily in the form of fine dust collected from air pollution control equipment, is directly related to the increased production capacity. The entire quantity of fine dust is being sent into the cement manufacturing process, ensuring zero solid waste disposal.

Hazardous waste generation such as used oil, spent grinding media, and used lead acid batteries should increase post-expansion. All hazardous wastes are being handled, stored and disposed of strictly in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, through authorized re-processors or co-processing, ensuring no adverse environmental impact.

SOLID WASTE GENERATION

| S. No | Type of Solid waste | Quantity | | Handling/storage | Mitigation measure/ utilization |
|-------|---|----------|-------|--------------------------------------|---------------------------------|
| | | Before | After | | |
| 1 | Fine dust collected in air pollution control equipment, TPD | 1,703 | 2,153 | Recycled within Cement plant circuit | Recycled back to process |

HAZARDOUS WASTE GENERATION

| Sl. No. | Name of Hazardous Waste | Quantity | | Method of Disposal |
|---------|-------------------------------|----------|-----------------|-------------------------------------|
| | | Existing | After Expansion | |
| 1 | Hi-chrome grinding media, TPA | 260 | 320 T | Return back to the supplier for re |
| 2 | Waste oil, LPA | 500 | 600 | Shall be disposed to the authorized |

| | | | | |
|---|--------------------------|--------------------|--------------------|--|
| | | | | re-Processors through M/s. APEN processing within the industry. |
| 3 | Used Lead Acid Batteries | 200 Nos. per Annum | 250 Nos. per Annum | To authorized dealers on buy-back |

VEHICULAR TRAFFIC:

The proposed expansion results in an increase in raw material and finished product transportation, leading to an increase in the number of vehicular movements. Vehicular emission loads for PM, SO₂, NO_x, and CO have been estimated using CPCB-recommended emission factors and compared for pre- and post-expansion scenarios.

The incremental vehicular emissions are proportionate to the increased traffic volume and will be managed as follows:

- Well-maintained vehicle fleet
- Paved internal roads
- Controlled vehicle speeds
- Regular water sprinkling
- Optimized logistics planning

VEHICULAR EMISSIONS FROM MATERIAL TRANSPORT

| Description | | Raw Material + Finished Products | |
|---|---------------------------|----------------------------------|-----------------|
| Quantity, MTPA | | Before Expansion | After Expansion |
| Quantity, TPD | | 3.07 | 4.21 |
| Operational Days | | 8771 | 12180 |
| Capacity of each Dumper | | 350 | 350 |
| Basis Factor of 25 Dumper, kw | | 25 | 25 |
| Vehicle Speed km/hr | | 112 | 112 |
| Operating hours in a day, (2 shifts/12 hrs) | | 24 | 24 |
| Total number of Trucks in day | | 351 | 488 |
| Number of Dumper /hr | | 15 | 20 |
| Lead length per trip, km (two way) | | 20 | 20 |
| Total Vehicle km travelled per Hr | | 292 | 400 |
| PM | gm/kwh* | 0.02 | 0.02 |
| | gm/sec | 0.00728 | 0.0112 |
| SO ₂ | mg/kg of diesel | 100 | 100 |
| | diesel consumption lit/km | 0.3 | 0.3 |
| | Density of diesel kg/l | 0.837 | 0.837 |
| NOx Emission | gm/sec | 0.002039 | 0.002039 |
| | g/kmhr* | 3.5 | 3.5 |
| Carbon Monoxide | gm/sec | 0.284 | 0.336 |
| | g/Kmhr* | 1.5 | 1.5 |
| | gm/sec | 0.122 | 0.112 |

* <https://cpcb.nic.in/vehicular-exhaust/>

i.

| | | | Area, Ha. | |
|--|--|--|-----------|--|
| | | | 52.975 | |
| | | | 17.676 | |
| | | | 130.24 | |
| | | | 9.692 | |
| | | | 118.41 | |

ii.

iii.

iv.

| P o i n t | L a t i t u d e N" | L o n g i t u d e E" |
|-----------------------|--|---|
| 1. | 1 6° 5 1' 2 9. 7 7" | 8 0° 7' 2 4. 0 3" E |
| 2. | 1 6° 5 3' 3 2. 3 9" | 8 0° 7' 1 9. 7 3" E |
| 3. | 1 6° 5 2' 3 2. 7 0" | 8 0° 6' 5 0. 0 1" E |
| 4. | 1 | 8 |

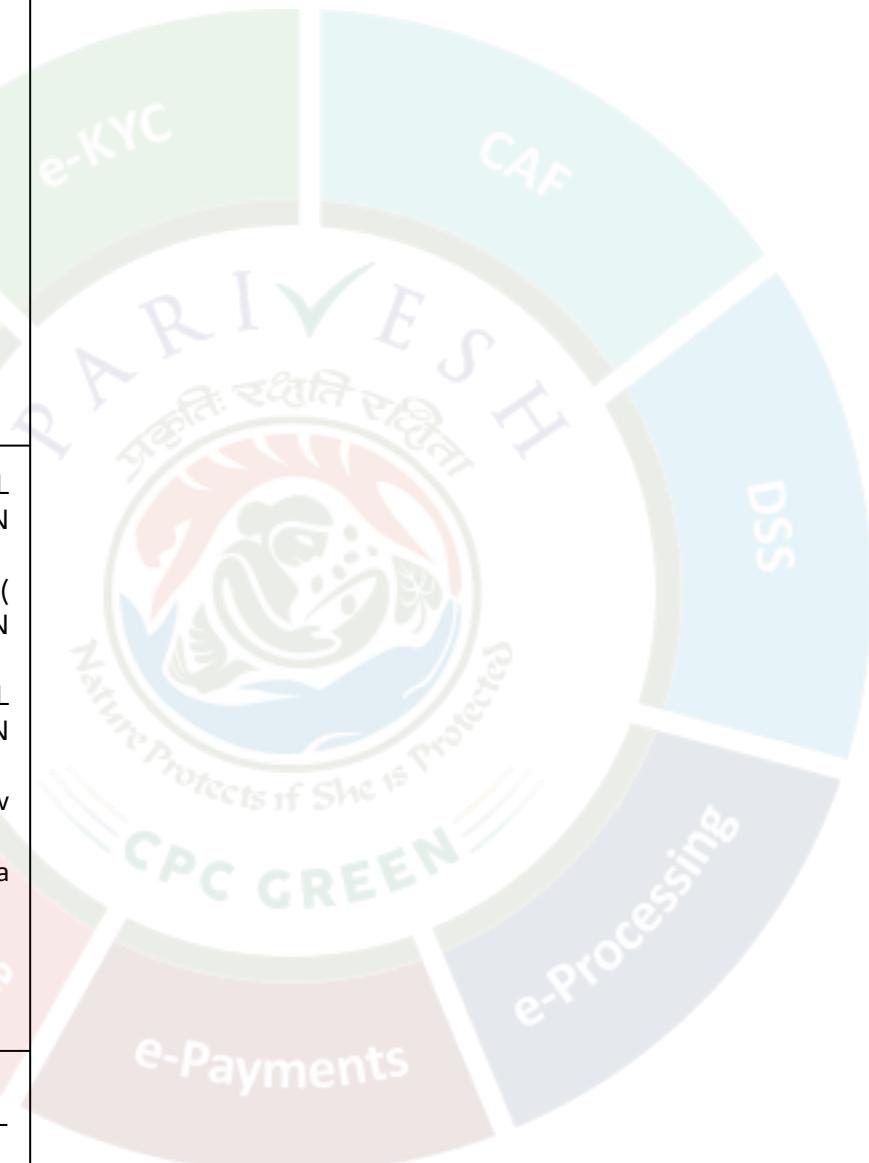
| | | | | | |
|-------|---|--|--|-------------------------------------|--|
| | | | 6° 5 2' 3 6. 4 9" N | 0° 7' 5 9. 5 2" E | |
| v. | | | | | |
| vi. | | | | | |
| vii. | | | | | |
| viii. | | | | | |
| | Details of inter-linked projects need to be submitted | | | | |

| | it t e d | | | |
|--------------|---|---|--|---------------------------|
| S. N o | EC for | EC Reference | Approved quantity | Implemen tation Status |
| 1 | Certificate of Environmental Clearance from Andhra Pradesh Pollution Control Board (Pre-EIA Notification 1994) | APPCB Lr. No. 190/PCB/Air/85-1400 dated 09.08.1985 | Cement: 7.5 LTPA | Implemented |
| 2 | Expansion of Cement Plant: Clinker from 3,250 TPD to 7,250 TPD and Cement from 1.60 MTPA to 2.60 MTPA along with Coal based Captive Power Plant (2x18 MW) | MoEF EC Order No. J-11011/403/2006-IA-II (I) dated 07.02.2007 | Clinker: 7,250 TPD Cement: 2.6 MTPA Power: 36 MW | Implemented |
| 3 | Plant Modernization & Expansion | MoEF EC Order No. J-11011/403/2006-IA-II (I) dated 09.06.2009 | Clinker: 2.80 MTPA Cement: 3.65 MTPA | Implemented |
| 4 | Expansion of Cement Plant: Clinker from 2.80 MTPA to 3.185 MTPA by Up gradation of Line-I & Optimum Utilization of Line-II (No change to the existing cement Production of 3.65 MTPA) and Installation of 6 MW Turbo Generator to existing 36 MW Coal base d Captive Thermal Power Plant. | MoEF&CC EC Order No. J-11011/403/2006-IA-II (I) dated 29.09.2016 | Clinker: 3.185 MTPA Cement: 3.650 MTPA Captive Power: 42 MW (2x18 MW + 6 MW) | Implemented |
| 5 | Expansion of Cement Plant: Clinker from 3.185 MTPA to 4.685 MTPA by installation of Line-III, Cement Production - 3.65 MTPA (no change), Installation of 27 MW Waste Heat Recovery Boilers and downsizing the Coal base d Captive Thermal Power Plant to 24 MW. | MoEF&CC EC Order Lr. No. J-11011/403/2006-IA-II (I) dated 18.12.2019 and its amendment No. J-11011/403/2006/IA. II(I) dated 15.07.2020. | Clinker: 4.685 MTPA Cement: 3.650 MTPA Thermal Power: 24 MW WHRB: 27 MW DG set: 4 MW | Implemented |

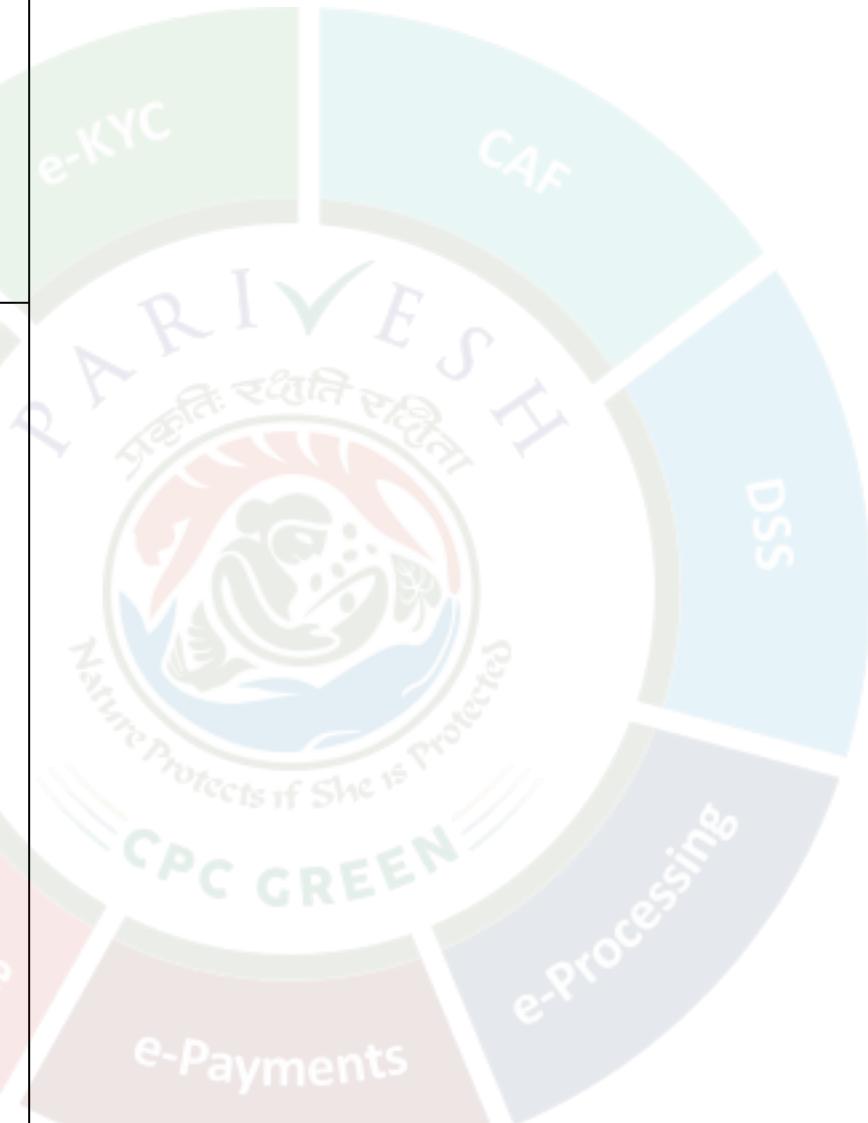
| Plant Facilities/ Units | Present Production (MTPA) | Phase-I Production a fter 20% (MTPA) | Phase-II Production a fter 40% (MTPA) | Total % of In crease in eac h line | Remarks | | |
|----------------------------|---------------------------------|---|--|---|---|-----|-----------------|
| CLINKER | | | | | Overall Increase in Clinker Production is 26.4% Beyond 20% increase is only in case of Line-III Clinker production. | | |
| Line - I | 1.61 | 1.932 | 1.932 | 20 | | | |
| Line - II | 1.575 | 1.89 | 1.89 | 20 | | | |
| Line - III | 1.5 | 1.8 | 2.1 | 40 | | | |
| Total | 4.685 | 5.622 | 5.922 | 26.4 | | | |
| Cement | 3.65 | 4.38 | 5.11 | 40 | Overall increase in Cement Production is 40% in 2 phases of 20% & 20% | | |
| Power | | | | | | | |
| CPP (MW) | 24 | 24 | 24 | 0 | No change | | |
| WHRB (MW) | 27 | 27 | 28.5 | 5.5 | 3 Nos. x 9.5 MW = 28.5 MW | | |
| DG (MW) | 4 | 4 | 4 | 0 | No change | | |
| S. N o. | Name of the Ra w Material | Quantity TPA | | | Source | | |
| | | Before Ex pansion | After Ph ase - 1 E xpansion (TPA) | After Phase - 2 E xpansion (TPA) | | | |
| 1 | Limestone | 65,70,000 | 73,81,68 6 | 77,75,586 | Captive mine s | 3.2 | Road / R ail |
| 2 | Laterite | 2,10,000 | 25,2,003 | 2,65,450 | Andhra Prade sh & Telanga na | 200 | |
| 3 | Iron Rich Laterite | 2,50,000 | 2,99,992 | 3,16,000 | Andhra Prade sh & Telanga na | 200 | |

| S. N o. | Name of the Ra w Material | Quantity TPA | | | Source | Appro x. dist ance f rom c emen t plan t (km) | Mode of transpo rt |
|------------|--|--|-----------------------------------|----------------------------------|------------------------------------|---|--------------------|
| | | Before Ex pansion | After Ph ase - 1 E xpansion (TPA) | After Phase - 2 E xpansion (TPA) | | | |
| 4 | Gypsum | 1,80,000 | 2,18,571 | 2,55,000 | Coromandel company Vis akapatnam | 420 | |
| 5 | Fly Ash | 9,10,000 | 10,92,00 0 | 12,74,000 | CTPP/ VTPS, Vijayawada | 80 | |
| 6 | Slag | 2,86,000 | 3,42,857 | 4,00,000 | VSP, Visakha patnam | 420 | |
| 7 | Coal (Indian or Im ported) for Ceme nt Plant - 100% | 6,30,000 | 6,55,046 | 6,90,000 | Singareni Col lieries / Im po rted | 100 | |
| 8 | Pet Coke (Indian or Imported) for Cement Plant - 1 00 % | 4,74,666 | 4,91,925 | 5,18,175 | Reliance & i mported | 400 | |
| 9 | Coal (Indian or Im ported) for Thermal Power Plant - 100 % | 1,10,000 | No chang e | No change | Singareni Col lieries / Im po rted | 100 | |
| P e ri o d | Emissions | | | | | | |
| | A A Q p a r a m e t e r s a t 0 9 | v PM ₁₀ = 42.9 to 65.5 μ g/m ³ v PM _{2.5} = 15.9 to 24.8 μ g/m ³ v SO ₂ = 8.3 to 18.8 μ g/ m ³ v NO ₂ = 10.3 to 21.9 μ g/m ³ v CO: less than 1 ppm | | | | | |

| | |
|-------------------------|---|
| Period | Emissions |
| Locations (min and max) | <p>Increase in ambient air quality levels:</p> <ul style="list-style-type: none"> PM₁₀ = 1.36 µg/m³ (Level at 0.43 km - N direction) PM_{2.5} = 0.427 µg/m³ (Level at 0.57 km - N direction) SO₂ = 0.809 µg/m³ (Level at 0.46 km - N direction) NO_x = 4.943 µg/m³ (within the plant site) CO = 4.98 µg/m³ (Near to Plant boundary) |
| Groundwater quality | <p>Groundwater quality parameters:</p> <ul style="list-style-type: none"> pH = 7.65 - 7.95 Total Hardness = 270 - 525 mg/l Chlorides = 50 - 335 mg/l Fluoride = 0.50 - 1.31 mg/l Heavy Metals - all values are well within the IS: 10500 standards |



| Period | Emissions |
|---|---|
| it y a t 0 8 lo c a t i o n s | |
| Surf a c e w a t e r q u a l i t y a t 0 8 lo c a t i o n s | <p>v pH: 8.30 – 8.40; v DO: 5.0 – 5.6 mg/l; v BOD: 2 to 3 mg/l ; v COD: 12 – 17 mg/l</p> |
| Noise level | <p>v Day time: Core zone: 4.5 – 65.1dB (A); Buffer Zone: 54.1 – 58.1 dB (A)</p> <p>v Night time: Core zone: 47.8 – 58.6 dB (A); Buffer Zone: 44.3 – 46.4 dB (A)</p> |



| Period | Emissions | | | | | | | | | | | | | |
|--|---|--|--|-----------------------------|--|--|--|--|-----|--|-------------|------------------|--------------|-----------------------------|
| Second Week (Day and Night) | 7.3 dB (A) | | | | | | | | | | | | | |
| Traffic Assessment Study Findings | <ul style="list-style-type: none"> Existing PCU is 504 PCU/hr during 08:00 to 09:00AM on SH 214 and existing level of service (LOS) is: <table border="1"> <thead> <tr> <th>Road V ol u m e in P C U / h r.)</th> <th>V (C a p a ci t y in P C U / h r.)</th> <th>C (C a p a ci t y in P C U / h r.)</th> <th>Ex is ti n g V/ C R at io</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>State High way- 21 4, wh ich co nn</td> <td>5 0 4</td> <td>1 2 0 0</td> <td>0. 4 2</td> <td>C (G o o d)</td> </tr> </tbody> </table> | | | | Road V ol u m e in P C U / h r.) | V (C a p a ci t y in P C U / h r.) | C (C a p a ci t y in P C U / h r.) | Ex is ti n g V/ C R at io | LOS | State High way- 21 4, wh ich co nn | 5 0 4 | 1 2 0 0 | 0. 4 2 | C (G o o d) |
| Road V ol u m e in P C U / h r.) | V (C a p a ci t y in P C U / h r.) | C (C a p a ci t y in P C U / h r.) | Ex is ti n g V/ C R at io | LOS | | | | | | | | | | |
| State High way- 21 4, wh ich co nn | 5 0 4 | 1 2 0 0 | 0. 4 2 | C (G o o d) | | | | | | | | | | |



| Period | Emissions | | | | | | | | | | |
|-----------------------------------|---|--------------|-----------------|--------------|-----------------|-----|-----------------------------------|------------|------|------|----------|
| | ект s C hill aka llu to Ko nak anc hi, | | | | | | | | | | |
| | | | | | | | | | | | |
| | <ul style="list-style-type: none"> PCU load after proposed project will be 504 (Existing) + 13 (Additional) PCU/hr and level of service (LOS) will be: <table border="1"> <thead> <tr> <th>Road</th> <th>Vol (V)</th> <th>Capacity (C)</th> <th>Proposed (Pr o)</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>State Highway-214, which connects</td> <td>504+13=517</td> <td>1200</td> <td>0.43</td> <td>C (Good)</td> </tr> </tbody> </table> | Road | Vol (V) | Capacity (C) | Proposed (Pr o) | LOS | State Highway-214, which connects | 504+13=517 | 1200 | 0.43 | C (Good) |
| Road | Vol (V) | Capacity (C) | Proposed (Pr o) | LOS | | | | | | | |
| State Highway-214, which connects | 504+13=517 | 1200 | 0.43 | C (Good) | | | | | | | |



| Period | Emissions | | | | |
|--|-----------|--|--|--|--|
| <p>e ct s C hi ll a k al lu t o K o n a k a n c h i,</p> <p>2024</p> | | | | | |

* Note: Capacity as per I
RC-106:1990 Guide line
for capacity for roads.

Conclusion: The level of
service will Good after in
cluding additional traffic
due to proposed project.

EMP MEASURES

- Closed trucks are employed for transport of Materials/Products
- Trucks Pollution Under Control (PU C) are employed
- Monitoring of trucks to ensure compliances such as covering of trucks by tarpaulin, avoiding spillage on roads etc.

PARKING ARRANGEMENTS

Existing in an area of
5 Ha (50 % space for



| Period | Emissions |
|-----------------|--|
| | <p>free movement and 50 % for 400 vehicles) outside plant area for Parking facility.</p> <p>PARKING AREA IN THE PLANT</p> <p>All facilities such as canteen, toilets, rest rooms, etc. provided for truck drivers.</p> |
| Flora and fauna | <p>There are no National Parks/Wild life Sanctuaries/ Eco Sensitive Zones/ Bio sphere Reserves, Migratory Corridors of Wild Animals within 10 km radius of the study area.</p> <p>There are 4 Nos. of Schedule – I species reported in the study area as per Wild Life (Protection) Amendment, 2022. To protect these Schedule – I Fauna, TRCL have prepared the Wildlife conservation plan with total budget of Rs. 101.25 Lakhs.</p> <p>The Wildlife Conservation Plan is approved by Principal Chief Conservator of Forests (WL) and Chief Wildlife Warden, AP vide Rc. No. 21024/16/2022/WL-2 dated 11.06.2024 with a financial outlay of Rs. 101.25 Lakhs, which is already paid as Rs. 35.0 lakh on 29.11.2024 & Rs. 66.25 lakh on 02.01.2025.</p> <p>In addition to above, TRCL has deposited Rs. 15.00 lakhs for development of Butterfly Park near Mulapadu road of Vijayawada Range of NTR Division, Vijayawada under CSR activity for the year 20</p> |



| Period | Emissions |
|--------|--|
| | <p>23-24.</p> <p>The approval and monitoring of implementation status of the Wildlife Conservation Plan fall within the statutory mandate of the Forest Department, and compliance is ensured as per the conditions stipulated by the competent authority.</p> <p>TRCL requested to provide the details of implementation status of wildlife conservation plan to PCCF vide letter dated 15.11.2025 and 16.12.2025. The current implementation status will be furnished as and when communicated by the Forest Department.</p> |

q Cement Plant:

- ü No solid waste generated.
- ü Dust collected from Pollution control Equipment - Recycled back to the process

Sewage treatment Plant: Sludge - Completely used as manure in the Plantation work

HAZARDOUS WASTE:

| Sl. N o. | Name of Hazardous Waste | Stream | Quantity | | Method of Disposal |
|----------|--------------------------|---------------------|--------------------|--------------------|---|
| | | | Existing | After Expansion | |
| 1 | Hi-chrome grinding media | 17 of Schedule-IV | 260 TPA | 320 TPA | Return back to the supplier for recycling |
| 2 | Waste oil | 5.1 of Schedule - I | 500 LPA | 600 LPA | Shall be disposed to the authorized recyclers/ re-Processors through M/s. APEMC (or) co-processing within the industry. |
| 3 | Used Lead Acid Batteries | -- | 200 Nos. per Annum | 250 Nos. per Annum | To authorized dealers on buy-back basis. |

| S. N o | Activity | Year (Rs. Lakhs) | | | | | | | | Total |
|--------|--|------------------|-------------|--------------------------------|---------------|-------------|-------------|--------------------------|---------------------------|-------|
| | | 201 9- 202 0 | 202 0-20 21 | 202 1-20 22 | 202 2-20 23 | 202 3-2 024 | 202 4-20 25 | 202 5-20 26 co mple ted* | 2025- 2026 budge ted* | |
| 1 | Development of Jag gayyapet & nearby Hospitals | Physical No. | - | Covid | 1 | 1 | - | - | 2 | - |
| | | Village | - | Surrounding | Jagg aiah pet | - | - | - | Buda wada & DP Tanda | - |
| | | Budget Rs Lakh | - | 14.6 | 33.20 | - | - | - | - | 2.5 |
| 2 | Conducting free medical camps in surrounding villages & free medicines | Physical No. | - | - | - | - | - | - | - | - |
| | | Villages | Surrounding | | | | | | | 57.59 |
| | | Budget Rs Lakh | 4.0 | 4.28 | 4.82 | 6.49 | 10.0 | 12.0 | - | 16.0 |
| 3 | Conducting eye testing camps & veterinary camps | Physical No. | 02 | - | - | - | - | 4 ey e ca mps | 2 vet erinar y cam ps | - |
| | | Villages | Surrounding | - | - | Surrounding | | | | 5.35 |
| | | Budget Rs Lakh | 0.95 | - | - | 0.40 | 1.0 | 1.0 | - | 2.0 |
| 4 | Supply of drinking water through RO plants to surrounding villages | Physical No. | - | 2 | 1 | 1 | - | - | 3 | 33.11 |
| | | Village | - | Jaya nthi pura m & DP T hand a | Naw abpet | Ravir ala | - | - | Buda wada & Jag gaiah pet | |

| S. N o | Activity | Year (Rs. Lakhs) | | | | | | | | Total | |
|--------|--|------------------|--|---|--------------------------------|--------------------------------|-----------------------|---|-----------------------|-------|-------|
| | | 201 9- 202 0 | 202 0-20 21 | 202 1-20 22 | 202 2-20 23 | 202 3-2 024 | 202 4-20 25 | 202 5-20 26 co mple ted* | 2025- 2026 budge ted* | | |
| | Budge t Rs L akh | - | 12.7 | 2.38 | 3.03 | | | | 15.0 | | |
| 5 | Domestic water supply schemes that is construction of water tanks, laying water pipeline networks and providing drinking water to water tankers. | Physic al No. | 4 | 3 | 2 | 2 | 2 | 2 | 5 | 46.52 | |
| | | Village | Jaya nthi pura m S C Co lony, Bud awa da, R avira la & DP T hand a | Jaya nthi pura m, B uda wad a & DP T hand a | Jaya nthi pura m & DP T hand a | Jaya nthi pura m & DP T hand a | Sur rou nding | Jaya nthi pura m (3 5 KL Wat er ta nk) & Ra viral a | - | | |
| | | Budge t Rs L akh | 5.0 | 1.1 | 2.81 | 13.4 3 | 0.8 2 | 14.8 6 | - | 8.5 | |
| 6 | Providing saplings to villages & tree guards | Physic al No. | - | - | - | 1 | - | - | - | 2.75 | |
| | | Village | - | - | - | Jaya nthi pura m | - | - | - | | |
| | | Budge t Rs L akh | - | - | - | 2.75 | - | - | - | | |
| 7 | Skill development programmes under Apprenticeship, | Physic al No. | - | Near ly 40 stud ents | Near ly 40 stud ents | Near ly 40 stud ents | Ne arly 40 stu den ts | Near ly 40 stud ents | Near ly 60 s tuden ts | - | 171.3 |

| S. N o | Activity | Year (Rs. Lakhs) | | | | | | | | Total | |
|--------|--|------------------|-----------------------------|-------------------------|-------------|-------------|--|--------------------------|-----------------------|-------|--|
| | | 201 9- 202 0 | 202 0-20 21 | 202 1-20 22 | 202 2-20 23 | 202 3-2 024 | 202 4-20 25 | 202 5-20 26 co mple ted* | 2025- 2026 budge ted* | | |
| | Project wo rk, Trainin gs shall be given to lo cal educat ed youth | Village s | - | Surrounding | | | | | | | |
| | | Budge t Rs L akh | - | 25 | 24.8 | 25.5 0 | 25 | 25 | 46 | - | |
| 8 | Admission to local st udents in c ompany sc hool | Physic al No. | - | - | - | 680 | 680 | 680 | - | 7.84 | |
| | | Village s | - | Surrounding | | | | | - | | |
| | | Budge t Rs L akh | - | - | 1.84 | 2 | 2 | 2 | - | | |
| 9 | Developm ent of tem ples and w orship plac es | Physic al No. | 1 | 2 | - | - | - | 1 | 1 | 53.79 | |
| | | Village s | Surrounding (Lingala) | | - | - | - | Surrounding | | | |
| | | Budge t Rs L akh | 46.1 9 | 0.83 | - | - | - | 4.98 | 1.79 | | |
| 10 | Supply of water to A griculture Lands surr ounding vil lages | Physic al No. | - | - | - | 1 | - | 1 | - | 3.87 | |
| | | Village s | Surrounding (Jayanthipuram) | | | | | | | | |
| | | Budge t Rs L akh | - | - | - | - | - | 3.87 | - | | |
| 11 | | Physic al No. | 1 | 2 | - | - | 3 | 2 | - | 102.6 | |
| | | Village s | Ravir ala | Ravir ala & D P Th anda | - | - | Surrounding (Jayanthi puram, Agraharam, Ra virala) | | | | |

| S. N o | Activity | Year (Rs. Lakhs) | | | | | | | | Total |
|-----------|---|------------------|-------------|-------------|-------------|-------------|-------------|--------------------------|-----------------------|----------------------|
| | | 201 9- 202 0 | 202 0-20 21 | 202 1-20 22 | 202 2-20 23 | 202 3-2 024 | 202 4-20 25 | 202 5-20 26 co mple ted* | 2025- 2026 budge ted* | |
| | Budge t Rs L akh | 1.53 | 5.98 | - | - | 18. 20 | 21.8 9 | - | 55.0 | |
| Sub Total | | | | | | | | | | 535.0 2 |
| S.N o | Villages/Activity | | | | | | | | Budget in Rs. Lakhs | |
| | | | | | | | | | 1 st Year | 2 nd Year |
| | Dharamavarapadu thanda | | | | | | | | | |
| 1 | Existing Burial ground may be restructured with the water connection and Boundary wall | | | | | | 2.5 | 0 | 2.5 | |
| 2 | Skill Development Programs | | | | | | 1.0 | 1.0 | 2.0 | |
| | Jayanthipuram | | | | | | | | | |
| 3 | Garbage Cleaning Persons, and vehicle should be provided | | | | | | 3.0 | 0 | 3.0 | |
| 4 | Gram panchayat may be strengthened by the funds, so that they can engage the persons | | | | | | 1.0 | 1.0 | 2.0 | |
| | Kauthavari Agraharam | | | | | | | | | |
| 5 | Street lights in various places in the village - Jaggayyapet by pass road 3 lights, Jayanthipuram cross road- 3 lights, Paleru Bridge 2 lights, Vizag steel plant -2 lights, Omkareswara swamy opposite Devalayam -2 lights, S.C Colony 1 Light, Agraharam main center -1 light, MPU School inside one light, Anjaneya swamy temple - 1 light | | | | | | 1.0 | 0 | 1.0 | |
| 6 | Upgradation of road to improve the burial ground position, levelling with gravel metal. | | | | | | 1.0 | 0 | 1.0 | |
| 7 | Some of the places where gravel is necessary to improve the road facility they are: Before The MPUP school, Before veterinary hospital, BC burial ground area, Muslim Darga, road leading to Gnagammattalli temple road, bathing ghat, before the house of paritala subbamma garu | | | | | | 1.0 | 1.0 | 2.0 | |

| S.N o | Villages/Activity | Budget in Rs. Lakhs | | |
|----------|---|----------------------|----------------------|-------|
| | | 1 st Year | 2 nd Year | Total |
| 8 | Construction of bathing ghat near Omkareswar Ammavari temple | 1.0 | 0 | 1.0 |
| 9 | Construction of Side drains in the village | 1.0 | 0 | 1.0 |
| | Ravirala | | | |
| 10 | School ground flooring | 2.0 | 2.0 | 4.0 |
| 11 | Rooms to be constructed at 1st Floor to keep digital equipment's during the floods | 1.0 | 0 | 1.0 |
| 12 | Alternative arrangement for drinking water, or additional 2 more hand pumps to be dug | 1.0 | 1.0 | 2.0 |
| 13 | Construction of individual toilets need based | 1.0 | 0 | 1.0 |
| 14 | Construction of Burial ground along with all facilities | 1.0 | 0 | 1.0 |
| 15 | Construction of side drains and improvement of Drainage system | 6.0 | 6.0 | 12.0 |
| | Vedadri | | | |
| 16 | Skill Development Center to be opened for SHG Groups members for doing some economic activity by the group member | 1.0 | 0 | 1.0 |
| 17 | Field channel roads to be strengthened | 1.0 | 0 | 1.0 |
| 18 | Construction and strengthening of burial ground | 0 | 1.0 | 1.0 |
| 19 | Construction of Pipe line for drinking water | 0 | 1.0 | 1.0 |
| | Bandipalem | | | |
| 20 | Improvement of Drainage system in the village | 1.0 | 0 | 1.0 |
| 21 | Improvement of roads | 1.0 | 0 | 1.0 |
| 22 | Construction of Boundary wall to existing burial ground | 0 | 1.0 | 1.0 |
| | Pochampalli | | | |
| 23 | Kitchen room for the school | 0.5 | 0 | 0.5 |

| S.N o | Villages/Activity | Budget in Rs. Lakhs | | |
|----------|---|----------------------|----------------------|------------|
| | | 1 st Year | 2 nd Year | Total |
| 24 | Additional Class room in Upper Primary School | 0 | 2.0 | 2.0 |
| | Chillakallu | | | |
| 25 | Drinking water facility to be improved | 1.0 | 0 | 1.0 |
| 26 | Road to be strengthened | 1.0 | 1.0 | 2.0 |
| | Gundupalem | | | |
| 27 | Drainage facility to be improved | 1.0 | 0 | 1.0 |
| 28 | Street lights to be increased in SC Colony | 0.5 | 0 | 0.5 |
| | Seetharamapuram | | | |
| 29 | Street Lights to be strengthen | 0 | 0.5 | 0.5 |
| 30 | Burial ground to improve with water | 0 | 0.5 | 0.5 |
| | Other Places (within 10 km from the plant) | | | |
| 31 | De-siltation of water bodies in nearby villages | 7.0 | 5.0 | 12.0 |
| 32 | Open Gym in Jaggaiahpeta and nearby school in villages | 20.0 | 2.0 | 22.0 |
| 33 | Gravel material for improving the rural infrastructure include s road development, | 2.0 | 2.5 | 4.5 |
| 34 | Implementation of holistic Digital Development of Govt. Pri mary schools in nearby villages | 5.0 | 5.0 | 10.0 |
| 35 | Strengthening of road connecting Chillakallu village to Veda dri Temple | 30.0 | 20.0 | 50.0 |
| | Total Budget in Rs. Lakhs | 96.5 | 53.5 | 150 |

| Project Activity Based on Process Plant & Support Services | | | | | |
|--|--|--|--|---------------------|--------------------------|
| Activity | Aspects | Impacts | Mitigation Measures | Budget (Rs. Crores) | |
| | | | | Capital Cost | Recurring Cost per annum |
| Air Pollution - Cement Plant & Thermal Power Plant which includes Clinker Production Transportation of Raw Material, Cement Grinding and Power generation. | <ul style="list-style-type: none"> Emission from Kiln, Dust Emissions from vehicular emissions, Coal Combustion and WHRB | <ul style="list-style-type: none"> Air Pollution, GHG Emissions from improper Fuel Combustions, Electricity consumption, and Ash disposal in hazardous manner. | <ul style="list-style-type: none"> Bag filters - 180 nos (Crusher, coal mill and Cement Mill) ESP for coolers Extension of covered shed for additives & coal Air Pollution Control Equipment for Packer - 4 Upgradation of Bag filters at clinker silos TPP fly ash bag filter Line - III AFR feeding Upgradation of Kiln - I RABH | 12.74 | 1.3 |
| Water is used in cooling system | <ul style="list-style-type: none"> Water Extraction and Waste water discharge | <ul style="list-style-type: none"> Ground water depletion, water pollution | <ul style="list-style-type: none"> Neutralization pit for CPPs (WHRB and TPP) Central Monitoring Basin Additional 8 Rain water Harvesting pits | 0.08 | - |
| Health and Safety Measures | <ul style="list-style-type: none"> Hazard Chemicals, Machinery Operation | <ul style="list-style-type: none"> Worker Injuries, Exposure to Harmful substances | <ul style="list-style-type: none"> Health Check-up, Regular safety Training, use of PPEs, Installation of Safety guards and Machinery | - | 0.40 |
| Solid and Hazardous waste | <ul style="list-style-type: none"> Waste from manufacturing, packing and by products use of oil in rotating equipment's | <ul style="list-style-type: none"> Land fill accumulation, Ground water contamination and air pollution Improper handling | <ul style="list-style-type: none"> Recycle packaging waste, Use ecofriendly materials and Treat industrial by products | 0.99 | 0.099 |

| Project Activity Based on Process Plant & Support Services | | | | | |
|--|--|---|---|---------------------|--------------------------|
| Activity | Aspects | Impacts | Mitigation Measures | Budget (Rs. Crores) | |
| | | | | Capital Cost | Recurring Cost per annum |
| | | of waste can lead soil and ground water pollution | <ul style="list-style-type: none"> Pneumatic ash system for TPP Maintenance of Existing 700 KLD STP Ash handling system Wet ash collection and transportation Controlled waste collections and storage facilities, slag handling, hazardous storage rooms and infrastructures etc. | | |
| Greenbelt Development | <ul style="list-style-type: none"> Land Clearing, Usage of land for industrial activity | <ul style="list-style-type: none"> Air Pollution, Habitat Loss and Noise Pollution | <ul style="list-style-type: none"> To plant native trees all along the Plant Boundary | 1.3 | 0.5 |
| Energy Conservation Measures | <ul style="list-style-type: none"> Energy consumption, Emissions from operations | <ul style="list-style-type: none"> High electricity consumption, high operational costs | <ul style="list-style-type: none"> Solar Lights and LED Lights. Solar Power Plant MV Drives, Variable Frequency Drives, High Tension motors (SPRS System) and Compressors | 0.99 | 0.099 |
| Wild Life Conservation | <ul style="list-style-type: none"> Flora and Fauna species | - | Wild Life Conservation plan | 1.01 | 0 |
| Environmental Monitoring | Air, water, noise, soil, tailings stability | Non-compliance, undetected environmental risks | Regular monitoring (AAQ, stack/fugitive emissions, noise, wastewater, tailings stability), NABL-accredited | - | 0.135 |

| Project Activity Based on Process Plant & Support Services | | | | | |
|---|---|------------------------------|---------------------|------------------------------------|--------------------------|
| Activity | Aspects | Impacts | Mitigation Measures | Budget (Rs. Crores) | |
| | | | | Capital Cost | Recurring Cost per annum |
| | | | abs | | |
| Grand Total | | | | 17.11 | 2.533 |
| Sl.N o | Description | Earlier EC date d 18.12.2019 | After Expansion | Remarks | |
| 1 | Land, ha | 329 | 329 | No Change | |
| 2 | Raw Material, TPA | | | | |
| | Limestone | 65,70,000 | 77,75,586 | 18% increase | |
| | Laterite | 2,10,000 | 2,65,450 | 26% increase | |
| | Iron Rich Laterite | 2,50,000 | 3,16,000 | 26% increase | |
| | Gypsum | 1,80,000 | 2,55,000 | 42% increase | |
| | Fly Ash | 9,10,000 | 12,74,000 | 40% increase | |
| | Slag | 2,86,000 | 4,00,000 | 40% increase | |
| | Coal (Indian or Imported) for Ce ment Plant – 100% | 6,30,000 | 6,90,000 | 10% increase | |
| | Pet Coke (Indian or Imported) for Cement Plant – 100 % | 4,74,666 | 5,18,175 | 9% increase | |
| | Coal (Indian or Imported) for The rmal Power Plant – 100 % | 1,10,000 | 1,10,000 | No Change | |
| 3 | Fresh Water requirement, m ³ /day | 5000 | 5100 | Additional 100 m ³ /day | |
| 4 | Power, MW | 58 | 60 | Additional 2 MW | |
| DETAILS OF POLLUTION LOAD OVERALL POLLUTION LOAD - AIR ENVIRONMENT, Kg/day | | | | | |
| S. No | Source | | Present | | After Expansion |
| | | | | | Phase - 1 |
| 1 | Kiln-I | PM | 384 | 477 | 477 |
| | | SO ₂ | 1280 | 1591 | 1591 |

| | | | | | |
|----|-------------------|-----------------|------|-------|-------|
| | | NOx | 7679 | 9544 | 9544 |
| 2 | Kiln-II | PM | 311 | 388 | 388 |
| | | SO ₂ | 1037 | 1293 | 1293 |
| | | NOx | 8297 | 10348 | 10348 |
| 3 | Kiln-III | PM | 255 | 332 | 350 |
| | | SO ₂ | 1274 | 1661 | 1750 |
| | | NOx | 7644 | 9971 | 10503 |
| 4 | Cooler - I | PM | 111 | 139 | 139 |
| 5 | Cooler - II | | 178 | 218 | 218 |
| 6 | Cooler - III | | 113 | 159 | 168 |
| 7 | Coal Mill - I | | 52 | 52 | 52 |
| 8 | Coal Mill - II | | 96 | 96 | 96 |
| 9 | Coal Mill - III | | 40 | 38 | 40 |
| 10 | Cement Mill - I | | 36 | 36 | 36 |
| 11 | Cement Mill - II | | 36 | 36 | 36 |
| 12 | Cement Mill - III | | 240 | 240 | 240 |

OVERALL POLLUTION LOAD - AIR ENVIRONMENT, Kg/day

| Parameter | Present, kg/day | After Expansion, kg/day | |
|----------------------------------|--------------------|-------------------------|-----------|
| | | Phase - 1 | Phase - 2 |
| Particulate Matter, PM | 1,851 | 2,212 | 2,239 |
| Sulphur Dioxide, SO ₂ | 3,591 | 4,545 | 4,635 |
| Oxides of Nitrogen, NOx | 23,621 | 29,863 | 30,395 |

WATER ENVIRONMENT:

The wastewater generated from domestic activities is treated in the Sewage Treatment Plant (STP) and the treated effluent quality complies with the Consent for Operation (CFO) prescribed standards. The analysis of wastewater quality before and after treatment confirms effective reduction in BOD, COD, TSS, and Oil & Grease, ensuring compliance with regulatory norms.

The pollution load calculations for wastewater parameters have been carried out considering treated effluent concentrations and wastewater flow rates. The assessment indicates that the treated effluent pollution loads remain within permissible limits.

QUALITY OF WASTE WATER FROM STP

| S. No | Parameters | Results | | CTO Prescribed Standards |
|-------|------------------------------|-----------|------------|--------------------------|
| | | STP Inlet | STP Outlet | |
| 1 | pH | 6.37 | 6.82 | 5.5- 9.0 |
| 2 | Oil & Grease, mg/l | 11.0 | 8.8 | 10 |
| 3 | Total Suspended Solids, mg/l | 120 | 68 | <100 |
| 4 | BOD for 3 days at 27°C, mg/l | 50 | 24 | 30 |
| 5 | COD, mg/l | 184 | 96 | <1000 |

POLLUTION LOAD CALCULATIONS FROM STP

| S. L. N. o | Parameters | STP Outlet Results | Waste water Generation, m ³ /day | Pollution Load, kg/day Existing | Actual Existing | | |
|------------|--------------------|--------------------|---|---------------------------------|-----------------|---|---|
| | | | | | | P | h |
| 1 | Oil & Grease, mg/l | 8.8 | 580 | 5.104 | N | o | C |

| | | | | | |
|---|------------------------------|----|-----|-------|-----------|
| 2 | Total Suspended Solids, mg/l | 68 | 580 | 39.44 | No Change |
| 3 | BOD for 3 days at 27°C, mg/l | 24 | 580 | 13.92 | No Change |
| 4 | COD, mg/l | 96 | 580 | 55.68 | No Change |

QUALITY OF WASTE WATER FROM ETP

| S. No | Parameters | Results ETP Outlet | Standards |
|-------|------------------------------|-----------------------|-----------|
| 1 | pH | 8.42 | 5.5-9.0 |
| 2 | Total Dissolved Solids, mg/l | 928 | 2100 |
| 3 | Total Suspended Solids, mg/l | 50.6 | 100 |
| 4 | COD, mg/l | 62.3 | 250 |
| 5 | BOD for 3 days at 27°C, mg/l | 23.6 | 100 |
| 6 | Oil & Grease, mg/l | 1.1 | 10 |

POLLUTION LOAD CALCULATIONS FROM ETP

| S. L. N. o | Parameters | ETP Outlet Results | Waste water Generation, m³/day | Pollution Load, Kg/day | After Expansion |
|------------|------------------------------|--------------------|--------------------------------|------------------------|-----------------|
| | | | | | Phase - 1 |
| 1 | Total Dissolved Solids, mg/l | 928 | 700 | 649.6 | No Change |
| 2 | Total Suspended Solids, mg/l | 50.6 | 700 | 35.42 | |
| 3 | COD, mg/l | 62.3 | 700 | 43.61 | |
| 4 | BOD for 3 days at 27°C, mg/l | 23.6 | 700 | 16.52 | |
| 5 | Oil & Grease, mg/l | 1.1 | 700 | 0.77 | |

There is no change in wastewater generation quantity from the power plant and domestic sources due to the proposed expansion. Treated wastewater continues to be reused within the plant premises, supporting the zero liquid discharge.

SOLID & HAZARDOUS WASTE:

The increase in solid waste generation, primarily in the form of fine dust collected from air pollution control equipment, is directly related to the increased production capacity. The entire quantity of fine dust is being recycled back to the cement manufacturing process, ensuring zero solid waste disposal.

Hazardous waste generation such as used oil, spent grinding media, and used lead acid batteries shows a marginal increase post-expansion. All hazardous wastes are being handled, stored and disposed of strictly in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, through authorized recyclers/ re-processors or co-processing, ensuring no adverse environmental impact.

SOLID WASTE GENERATION, TPD

| S. No | Type of Solid waste | Quantity | | | Handling/storage | Mitigation measures | | |
|-------|---|----------|-----------------|-----------|--------------------------------------|--------------------------|--|--|
| | | Existing | After Expansion | | | | | |
| | | | Phase - 1 | Phase - 2 | | | | |
| 1 | Fine dust collected in air pollution control equipment, TPD | 1,703 | 1845 | 2,153 | Recycled within Cement plant circuit | Recycled back to process | | |

HAZARDOUS WASTE GENERATION

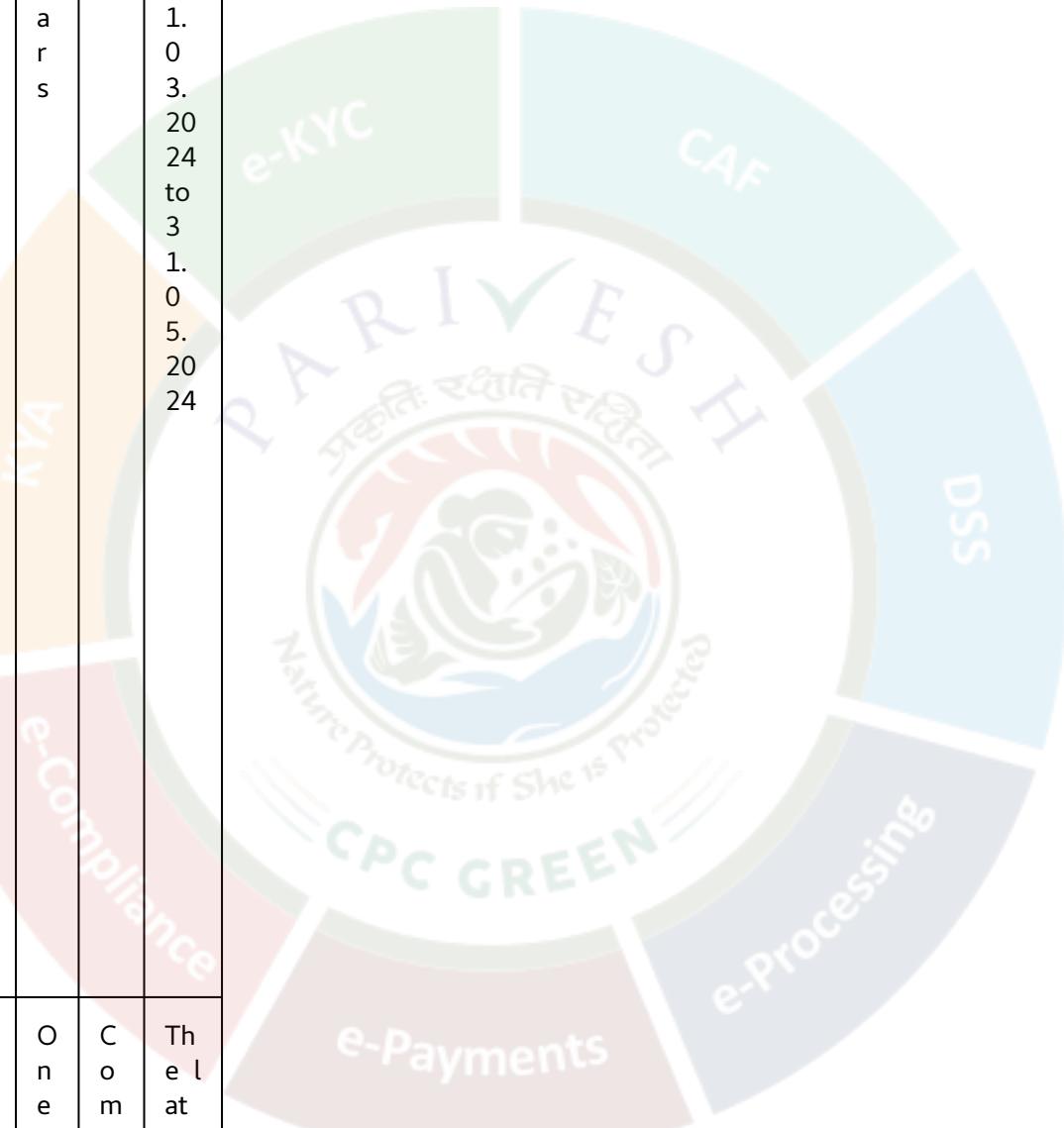
| Sl. No. | Name of Hazardous Waste | Quantity | | | Method of Disposal | |
|---------|-------------------------------|--------------------|--------------------|--------------------|---|--|
| | | Existing | After Expansion | | | |
| | | | Phase - 1 | Phase - 2 | | |
| 1 | Hi-chrome grinding media, TPA | 260 | 290 T | 320 T | The existing practice of returning back to the supplier for recycling will be continued | |
| 2 | Waste oil, LPA | 500 | 600 | 600 | Is being Disposed to the authorized recyclers/ re-Processors through LPAEMC (or) co-processing within industry and same will be continued | |
| 3 | Used Lead Acid Batteries | 200 Nos. per Annum | 250 Nos. per Annum | 250 Nos. per Annum | Is being disposed to authorized dealers on buy-back basis and same will be continued. | |

| 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 | Category | Distance | Remarks | Remarks/Safeguard measures |
|-----|--|--------------|----------------------------|---|----------------------------|
| | | Red category | beyond five hundred meters | The nearest water body is at paleru located with a distance of 0.90 km in SW direction. | - |
| (b) | from the settlement, educational institute, worship place, archaeological monuments, national park, reserve for | Red category | beyond five hundred meters | The nearest Settlement is Dharmavarapadu Thanda located with a distance of 0.03 km in E direction and Chillakallu (0.46 km, NE) from the plant boundary | |

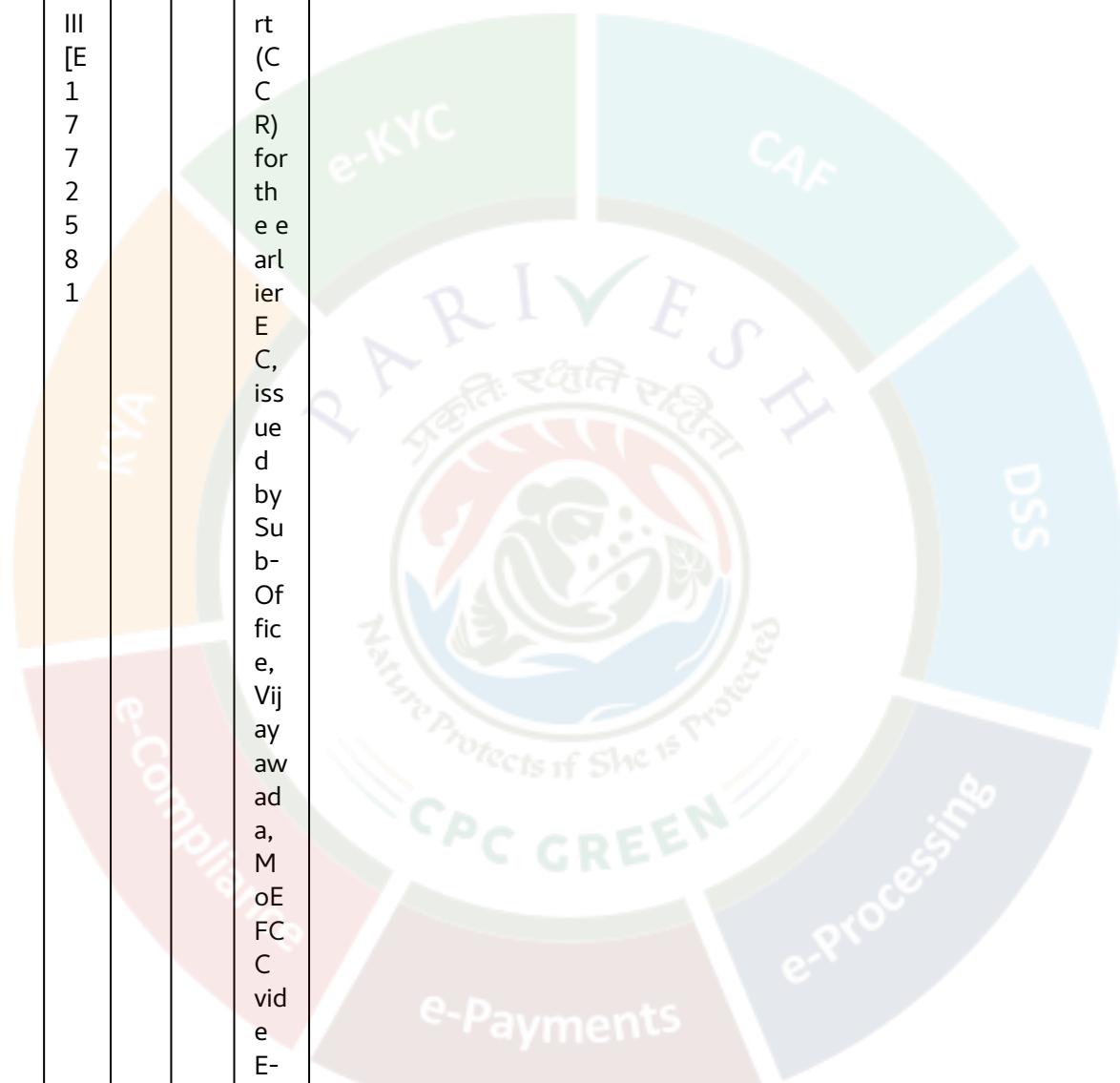
| | est, heritage site, | | | | |
|------------|---|--|--|---|--|
| (c) | The natural or storm drain passing through the location of industrial unit shall not be disturbed | | There are no Natural streams which are passing through the project site. | - | |
| S.L. No | D e s c ri p t o n | A p p l i c a b l i t y | A p p l i c a b l i t y | C o m p l i a n c e | |
| 1 | L a n d a c q u i s it i o n | O M N o. 2 2- 7 6/ 2 0 1 1 4- I A- III 0 7. 1 0. 2 0 1 4 a n d 2 0. 0 2. 2 0 2 5 | | N o t A p p l i c a b l e | The pro pos al i s f or ex pa nsi on wi thi n t he exi sti ng Va ca nt lan d pr e mi se s. No ad dit io nal lan d i |

| S.L.N.o | Description | Applicable OM | Applicability | Compliance | Remarks |
|---------|-------------|------------------|---------------|------------|---|
| | | | | | s required. The Existing land was owned by The Ramco cement Limited (TRCL). |
| 2 | Validity | F.N.o. IA 3-2 2/ | Three year | Complied | Baseline Period: 0 |

| S.L.No | Description | Applicable OM | Applicability | Compliance | Remarks |
|--------|-----------------|--|---------------|-------------------------|---------------------------------------|
| | fbaseline data | 10/2022-1A. III [E177258] dated 08.06.2020 | ars | 1.03.2024 to 31.05.2024 | |
| 3 | Validity of CCR | F.No. IA-3-22/10/2022-1A. | One Year | Complied | The latest Certified Complaint Report |



| S. L. N. o | D e s c r i p t i o n | D e s c r i p t i o n O M | A p p l i c a b l e O M | A p p l i c a b l e O M | C o m p l i a n c e | Re m a r k s |
|------------|-----------------------|--|-------------------------|-------------------------|--|--------------|
| | | III [E 1 7 7 2 5 8 1 | | | rt (C C R) for th e e ar ier E C, iss ue d by Su b- Of fic e, Vij ay aw ad a, M oE FC C vid e E- Fil e N o. S O/ VI J/E P A/ E C- | |



| S. L. N o | D e s c r i p t i o n | A p p l i c a b l e O M | A p p l i c a b l e O M | C o m p l i a n c e | Re m a r k s |
|-----------|-----------------------|-------------------------|-------------------------|---------------------|--|
| | | | | | 1/ 10 1/ 0 4- 5 7/ 20 2 4/ 30 4 da- te d 0 1. 0 1. 20 26 an d da- te of sit e v isit on 2 3. 1 2. 20 2 5. |
| 4 | V a l i d i t y | F. N. o. IA 3- 2 | T h r e e re- s e y | N o t A p pl | Pu blic He ari ng |

| S. L. N. o | D. e. s. c. ri. p. t. i. o. n | D. e. s. c. ri. p. t. i. o. n | A. p. p. l. i. c. a. b. l. i. t. y | A. p. p. l. i. c. a. b. l. i. t. y | C. o. m. p. l. i. a. n. c. e | R. e. m. a. r. k. s |
|------------------|---|---|---|--|--|--|
| o f P H | 2/ 1 0/ 2 2 2- I A. III [E 1 7 7 2 5 8] d at e d 0 8. 0 6. 2 0 2 2 | 2/ 1 0/ 2 2 2- I A. III [E 1 7 7 2 5 8] d at e d 0 8. 0 6. 2 0 2 2 | e a s r s e d e a r l i e r f o r t h i s p r o j e c t o n 2 8. 0 6. 20 1 9. As pe r t h i s M o E F & C C O M da te d 1 1. 0 4. 20 22 Pu bli | ic a b l e e a r l i e r f o r t h i s p r o j e c t o n 2 8. 0 6. 20 1 9. As pe r t h i s M o E F & C C O M da te d 1 1. 0 4. 20 22 Pu bli | wa s c on du ct ed ea rli er for thi s p r o j e c t o n 2 8. 0 6. 20 1 9. As pe r t h i s M o E F & C C O M da te d 1 1. 0 4. 20 22 Pu bli | wa s c on du ct ed ea rli er for thi s p r o j e c t o n 2 8. 0 6. 20 1 9. As pe r t h i s M o E F & C C O M da te d 1 1. 0 4. 20 22 Pu bli |

| S. L. N. o | D e s c r i p t i o n | D e s c r i p t i o n O M | A p p l i c a b l e O M | A p p l i c a b l e O M | C o m p l i a n c e | Re m a r k s |
|------------|-----------------------|---------------------------|-------------------------|-------------------------|---------------------|---|
| | | | | | | c Co ns ult ati on is ex e m pt ed up to 4 0% an d t he pr oje ct sh ou ld ha ve go n e th r ou gh t h e Pu bli c He ari ng pr oc es, e -Complia n ce e -KYC e -Payments e -Processing DSS CAF |

| S.L.N.o | Description | Applicable OM | Applicability | Compliance | Remarks |
|---------|-------------|---------------|---------------|------------|---|
| | | | | | at least once for its existing capacity on which expansion is being sought. |

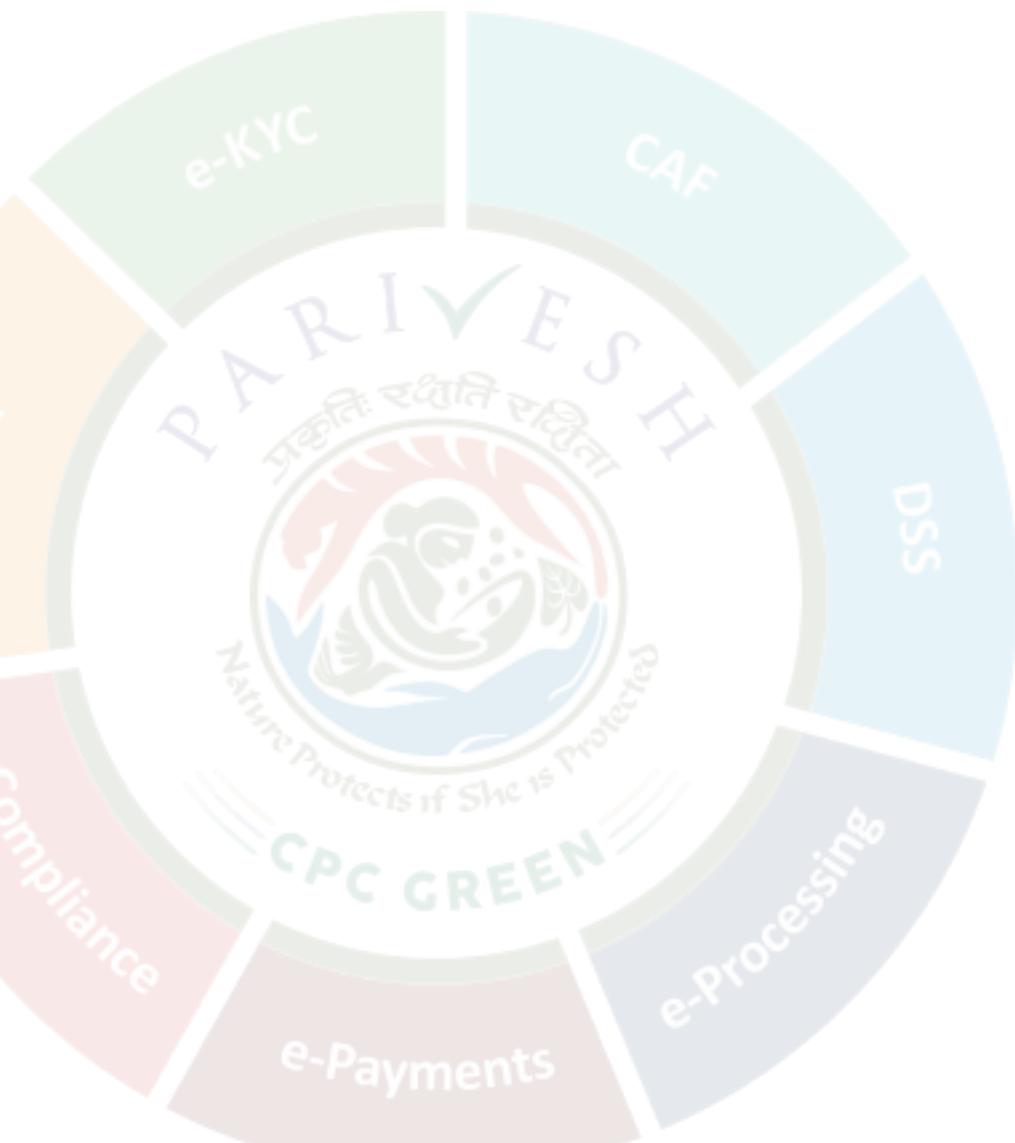
Written submission by the PP:



| S. No | Additional information sought | Reply |
|-------|---|---|
| 1. | The Project on open hall furnish ph as e-wi se pr od uc tio n de tai ls al on g wi th ra w m at eri al re qu ire m en ts an | The details of ph as e-wi se pr od uc tio n de tai ls al on g wi th ra w m at eri al re qu ire m en ts an |



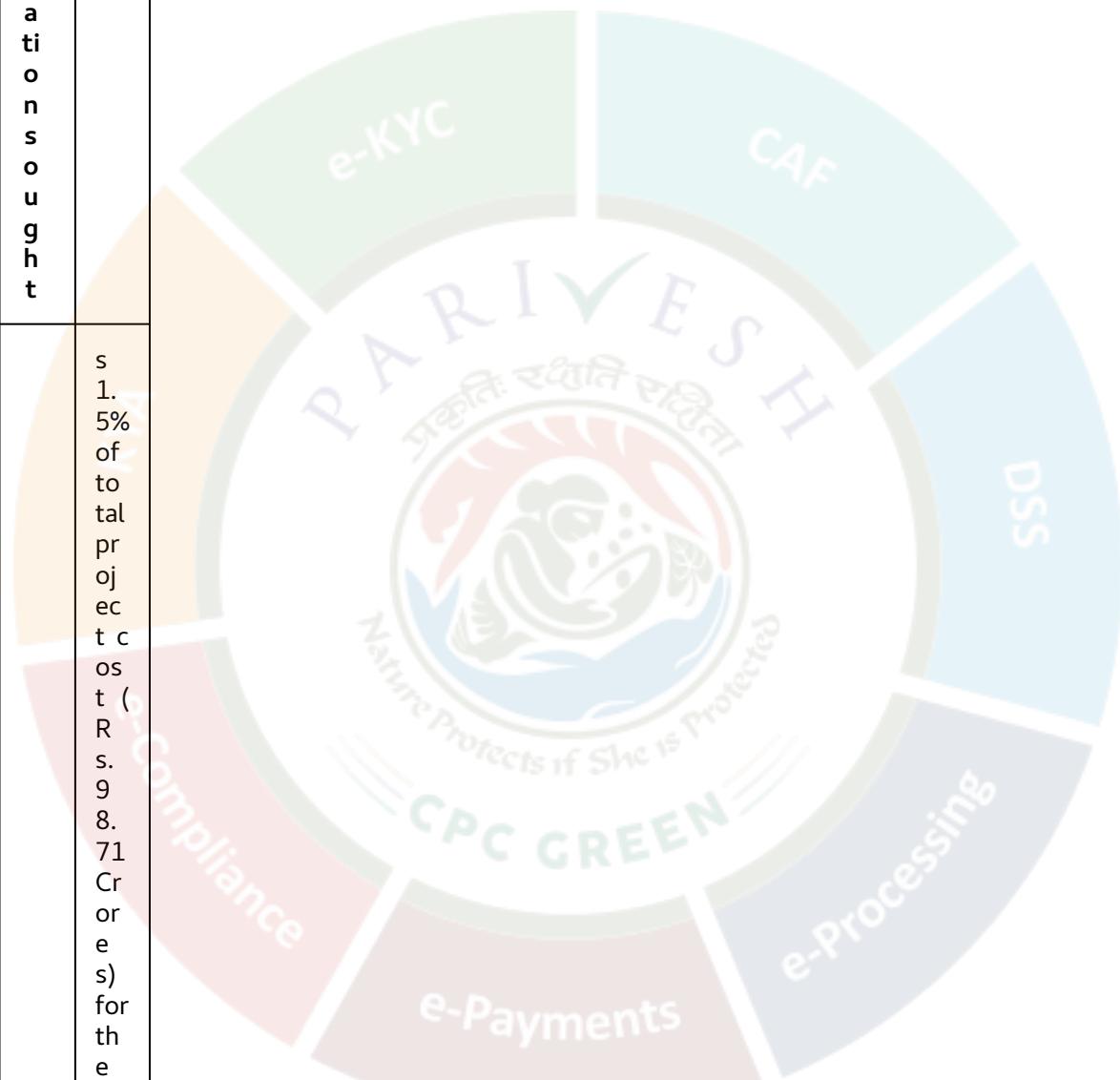
| S. No | Additional information sought | Reply |
|-------|---|--|
| | at eri al re qu ire m en ts an d co rr es po nd in g po llu tio n l oa d ca lc ul ati on s | d co rre sp on di ng po llu tio n l oa d ca lc ul ati on s |



| S. No | Additional information sought | Reply |
|-------|--|---|
| | | ph s a bo ve. |
| 2. | Project propo nen t i s r eq ue st ed to re vis e t he bu dg et all oc ati on fo r t he CE R. | TR CL ha s r evi se d t he CE R bu dg et is fro m R s. 77 La kh s t o R s.1 50 La kh s w hic h i |



| S. No | Additional information sought | Reply |
|-------|--|-------|
| | s 1. 5% of total project cost (Rs. 9.8.71 Cr or e.s) for the proposed expansion. These a m | |



| S. No | Additional information sought | Reply |
|-------|--|-------|
| | e i s u pd at ed at rel ev an t p ar ag ra ph ab ov e. | |

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 Cement Plant Capacity through increase in production of Clinker from 4.685 to 5.922 Million TPA, Cement (OPC, PPC, PSC, CC & SRC) from 3.65 to 5.11 Million TPA and Waste Heat Recovery Power plant from 27 MW to 28.5 MW through modernization and upgradation of process units, i.e. upto 40% in two phases [**Phase-I:** Clinker from 4.685 to 5.622 MTPA, Cement (OPC, PPC, PSC, CC & SRC) from 3.65 to 4.38 MTPA, with existing CPP (24 MW) and WHRB (27 MW) & **Phase-II:** Clinker from 5.622 to 5.922 MTPA, Cement (OPC, PPC, PSC, CC & SRC) from 4.38 to 5.11 MTPA, WHRB from 27 to 28.5 MW with existing 24 MW CPP] under para 7(ii) of EIA Notification, 2006 [OM dated 11.04.2022]. **The instant proposal is for expansion proposed under Phase-I.**

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 Cement Plant 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 Phase-I i.e. Clinker from 4.685 to 5.622 MTPA, Cement (OPC, PPC, PSC, CC & SRC) from 3.65 to 4.38 MTPA, with existing CPP (24 MW) and WHRB (27 MW) in the instant case.**
3. RCL had established Cement Plant at Kumaraswamy Raja Nagar (KSR Nagar) in the Year 1986. The plant was expanded with two process lines (Lines I & II). The existing project was accorded environmental clearance vide Ir.no. J-11011/403/2006-IA-II (I) dated 18.12.2019 for enhancement of Clinker Production from existing 3.185 MTPA to 4.685 MTPA by installation of additional kiln (1.50 MTPA) without changing existing cement production (3.65 MTPA) & Power Generation (27 MW) through Waste Heat Recovery Boilers (3x9MW) and Downsizing of existing Thermal Power Generation 42 MW to 24 MW. Further EC amendment was issued vide No. J-11011/403/2006/IA. II(I) dated 15.07.2020 for amendment in specific condition. Consent to Operate for the existing units was accorded by Andhra Pradesh State Pollution Control Board vide Order no. APPCB/VJA/VJA/488/HO/CFO/2017-dated 02.12.2021. The validity of CTO is up to 31.01.2027.
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 land area of the project is 329 hectares, comprising 266.94 hectares of private land and 62.06 hectares of revenue land, all of which is under the possession of The Ramco Cements Limited. No additional land will be required for the proposed enhancement.
9. Dharmavarapadu Thanda (0.03 km, E), Chillakallu (0.46 km, NE), Jayanthipuram (0.95 km, SW), Jaggayapeta (1.83 km, WNW) exists 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.
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. Paleru is at a distance of 0.9 km in SW of the project site along with other 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.

12. The Committee noted that limestone being primary raw material for cement manufacture is proposed to be sourced entirely from the proponent's existing and proposed captive limestone mines located adjacent to and in the vicinity of the cement plant. PP has reported that the project is not interlinked. It was observed that the total limestone requirement of the plant after expansion is estimated at about 7.78 MTPA, which will be met from five captive mines for which valid Environmental Clearances have already been obtained, with an approved cumulative capacity of 10.0 MTPA. The mines are located at distances ranging from adjacent to about 3.24 km, and limestone transportation is proposed through established modes including road, dedicated concrete roads, and rail, as applicable. The Committee took note that sourcing of limestone from these EC-approved captive mines is adequate to meet the post-expansion requirement. The Committee also opined that PP may adopt E-vehicles for product/ limestone/ raw material transportation in a phased manner, and to start with, it shall achieve a target of 10% EV adoption within 3 years, as a part of overall transportation fleet.

13. The existing total water requirement of the integrated facilities is 5,000 m³/day, of which about 1,030 m³/day is utilized for cement plant operations and is met from dewatered mine seepage water. PP reported that they obtained NOC from APWALTA, Government of Andhra Pradesh, for utilization of 7,000 m³/day of mine seepage water, and that the renewal application submitted on 23rd August, 2024 is under process. For the proposed expansion, an additional 100 m³/day of water is required; and, the net fresh water requirement after expansion will marginally increase from 5,000 m³/day to 5,100 m³/day. The EAC opined that the PP secure the required approval from the appropriate authority, as applicable.

14. The Committee deliberated upon the baseline environmental data and the incremental pollution load arising due to the proposed 40% capacity expansion, including detailed assessment of air, water, solid, and hazardous waste pollution loads. The Committee observed that while there is a marginal increase in emission loads post-expansion, the same remains within permissible limits and is adequately addressed through existing and proposed pollution control measures. It was further noted that wastewater generation remains unchanged with continued reuse under zero liquid discharge, and solid and hazardous wastes are proposed to be managed through recycling, reuse, and authorized disposal in compliance with applicable rules. Accordingly, the EAC found it satisfactory to appraise the instant proposal under para 7(ii) of EIA Notification, 2006.

15. It is reported that four Schedule-I fauna species have been reported within the study area as per the Wild Life (Protection) Amendment Act, 2022. To safeguard these species, TRCL has prepared a Wildlife Conservation Plan with a total financial outlay of Rs. 101.25 lakhs, which has been duly approved by the Principal Chief Conservator of Forests (WL) and Chief Wildlife Warden, Andhra Pradesh, and the entire amount has already been deposited. Additionally, Rs. 15.00 lakhs has been contributed under CSR for the development of a Butterfly Park in the Vijayawada Range. The implementation and monitoring of the Wildlife Conservation Plan fall under the statutory mandate of the Forest Department, and compliance is being ensured as per approved conditions. The EAC opined that the recommendations of the approved plan shall be ensured to be strictly implemented in coordination with the State Forest Department.

16. The Committee noted that earlier public hearing was conducted on 28th June, 2019 for the existing project. The Committee took cognisance of the CER Action Plan, wherein Rs. 5.00 crore was earmarked for implementation of CER activities within a period of two years as per the earlier EC condition. The proponent informed that implementation of the action plan could not be completed within the stipulated timeline due to the COVID-19 pandemic; however, the CER activities have continued beyond the said period. The Committee further noted that the proponent has incurred an expenditure of Rs. 5.35 crore, which is more than the committed amount, covering healthcare, drinking water supply, skill development, infrastructure, and other community welfare activities. After deliberation, the EAC agreed with the submission of the project proponent and took the same on record. The Committee also deliberated on the additional plan prepared on need based activities and found it satisfactory.

17. 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.

18. PP reported that TRCL has developed green belt in an area of 130.24 Ha, which is 39.5 % of total plant area with about 2,26,415 saplings with density of 1738 sampling per Ha. TRCL will also take up gap plantation of 99,185 sampling to arrive at the rate of 2500 Per Ha in 130.24 Ha. This activity will be completed by Monsoon end of 2027. Species are planted in consultation with the local DFO. However, to ascertain the extent of greenbelt available within the plant and colony areas, a study was undertaken by M/s. Creative Engineers and Consultants, Chennai. The study indicates that about 174.90 ha of the plant complex area is covered with vegetative cover, of which 136.21 ha falls under the high-density category and 38.69 ha falls under the medium to low-density category. The EAC opined that greenbelt shall be developed and maintained as committed.

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 Committee deliberated upon the certified compliance report of IRO, MoEF&CC and found the compliance status satisfactory.

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

22. 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.

23. 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.

24. 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. | Dharmavarapadu Thanda (0.03 km, E), Chillakallu (0.46 km, NE), Jayanthipuram (0.95 km, SW), Jaggayapeta (1.83 km, WNW) exists 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. |
| 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. | Paleru is at a distance of 0.9 km in SW of the project site along with other 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. |
| 7. | For the proposed expansion, an additional 100 m ³ /day of water is required; thus, the net fresh water requirement after expansion will increase from 5,000 m ³ /day to 5,100 m ³ /day which will be met from dewatered mine seepage water. PP shall secure the required approval from the appropriate authority, as applicable. No groundwater shall be abstracted for industrial activities. |
| 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 and as committed. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC. As committed, TRCL shall maintain green belt in an area of 130.24 Ha, which is 39.5 % of total plant area with about 2,26,415 saplings with density of 1738 sampling per Ha. TRCL shall also take up gap plantation of 99,185 sapling to arrive at the rate of 2500 Per Ha in 130.24 Ha. This activity will be completed by Monsoon end of 2027. |
| 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 during appraisal shall be satisfactorily implemented. The action plan with budgetary allocation of Rs.1.5Crores shall be implemented in accordance to the Ministry's OM dated 30.09.2020 and and progress shall be submitted 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. | PP shall Install CO sensors with alarms at strategic locations in the Plant. |

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| 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. |
| 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. |
| 1 7. | PP shall maintain emissions from bag filter below 20 mg/Nm ³ . |

3.1.6.2. Standard

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| 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 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. |
| 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, |

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| | 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 30 mg/Nm ³ 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. |

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| | 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 NOx burners as primary measures and SCR /NSCR technologies as secondary measure to control NOx 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. | DeSOx system shall be provided dry type. NOx 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 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. |

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| 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

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| 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

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| 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

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| 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

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| 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 |

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| | 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

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| 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

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| 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

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| 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. |

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| 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 |

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| | 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

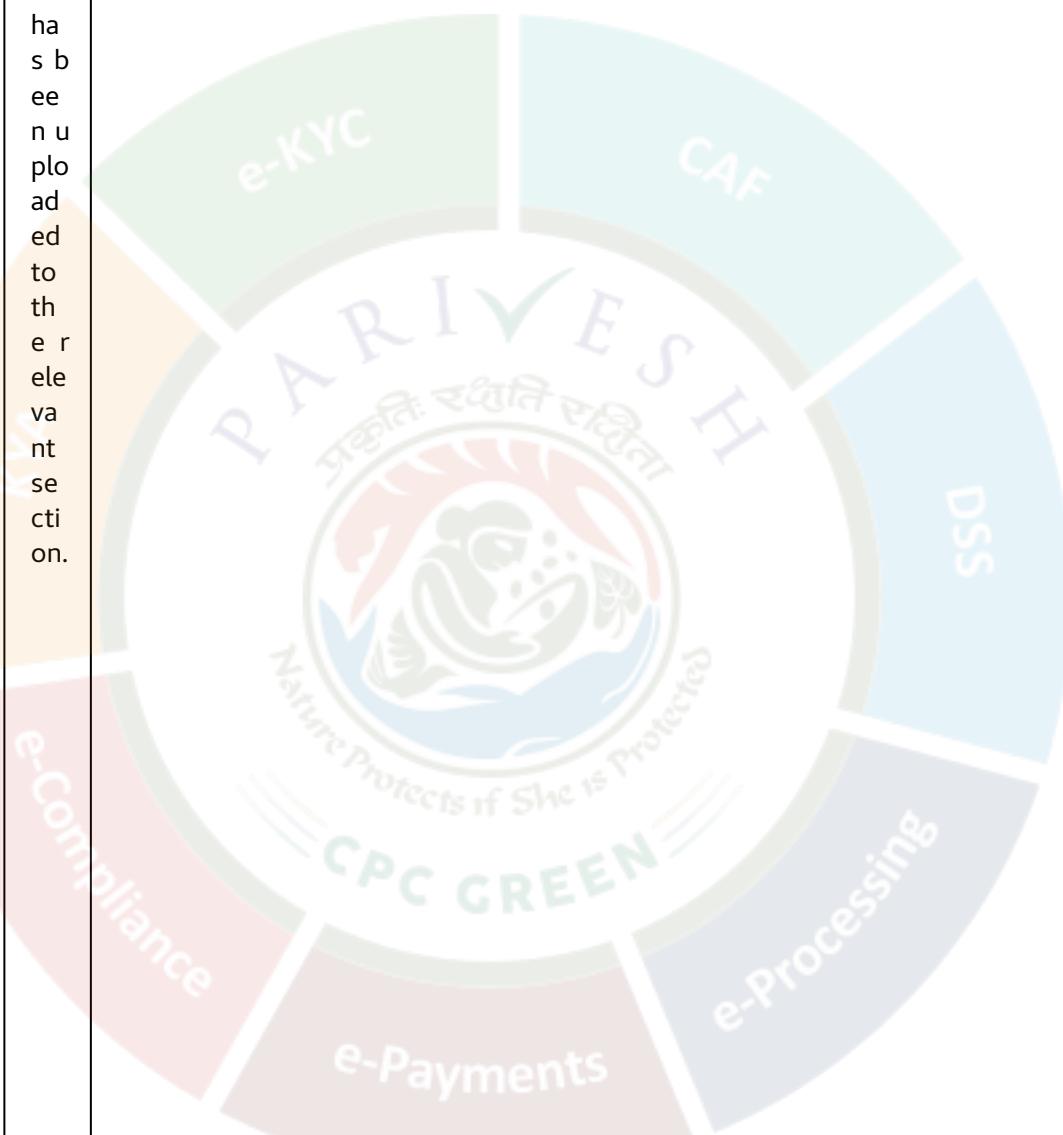
Expansion under 7(ii)(a) in the existing steel plant by increasing the manufacturing facility of MS Billets in SMS Unit from 135000TPA-162000TPA by installation of additional IF of 25tons with existing 3x15tons IR, Rolling & Strip Mill from 72000TPA to 84000TPA with addition of slag crusher unit of 10TPH along with existing facility of CPP of 15MW(WHRB-8MW & 7MW) & removing 25Ton AOD (2nd Stage expansion as per OM dated 11.04.2022) by SATYAM IRON & STEEL CO PRIVATE LIMITED located at PASCHIM BARDHAMAN, WEST BENGAL

| Proposal For | | Expansion EC | |
|--|----------------------------------|-----------------|--|
| Proposal No | File No | Submission Date | Activity Sub-Activity (Schedule Item) |
| IA/WB/IND1/523638/2025 | IA-J-11011/253/2020-I A.II(I) | 24/11/2025 | Metallurgical Industries (ferrous and non ferrous) Primary Metallurgical Industry - All Projects (3(a)) |

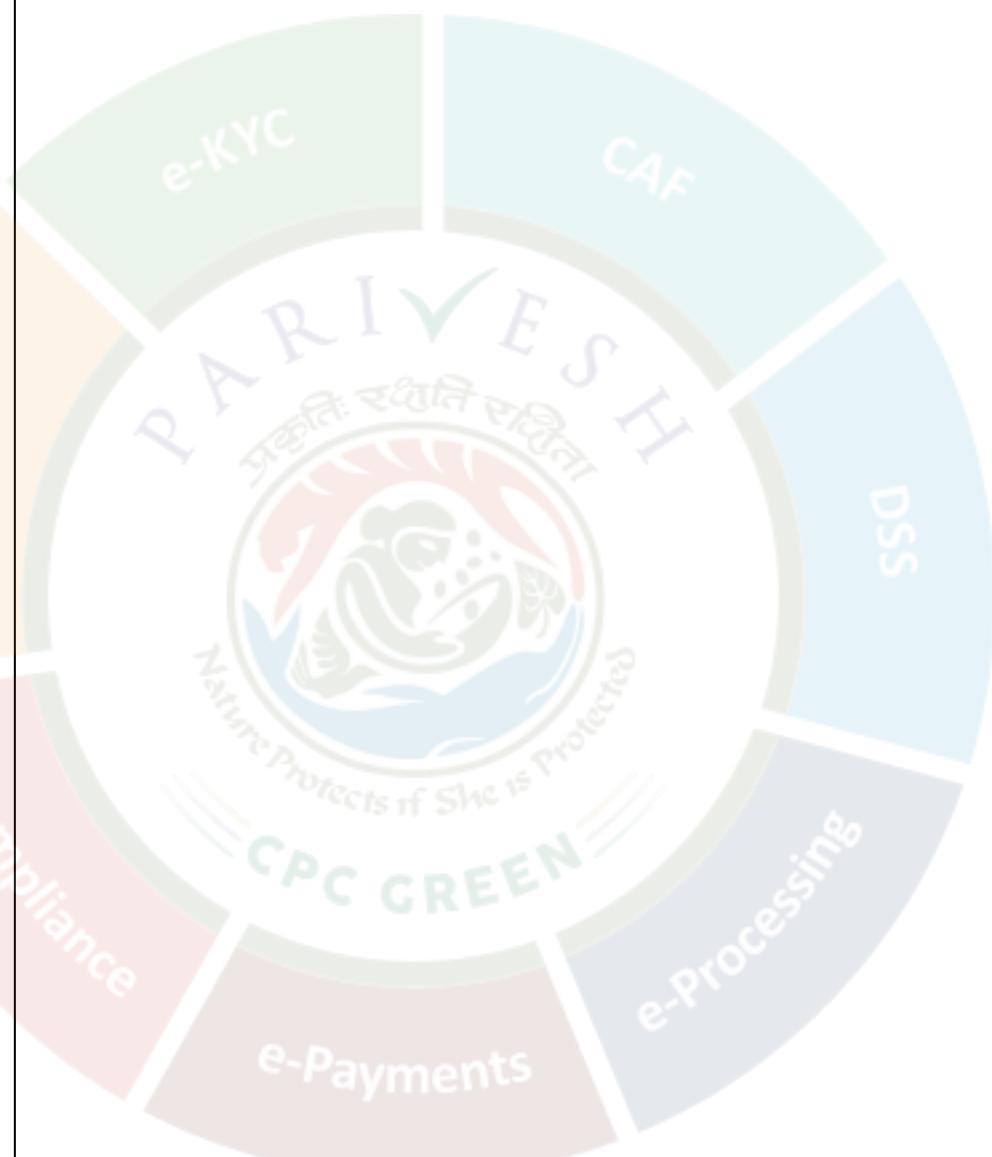
3.2.2. Project Salient Features

[Proposal no.: IA/WB/IND1/523638/2025: File No. IA-J-11011/253/2020-IA-II (I)]
[Consultant: Grass Roots Research & Creation India (P) Ltd.; Valid upto: 16.08.2027]

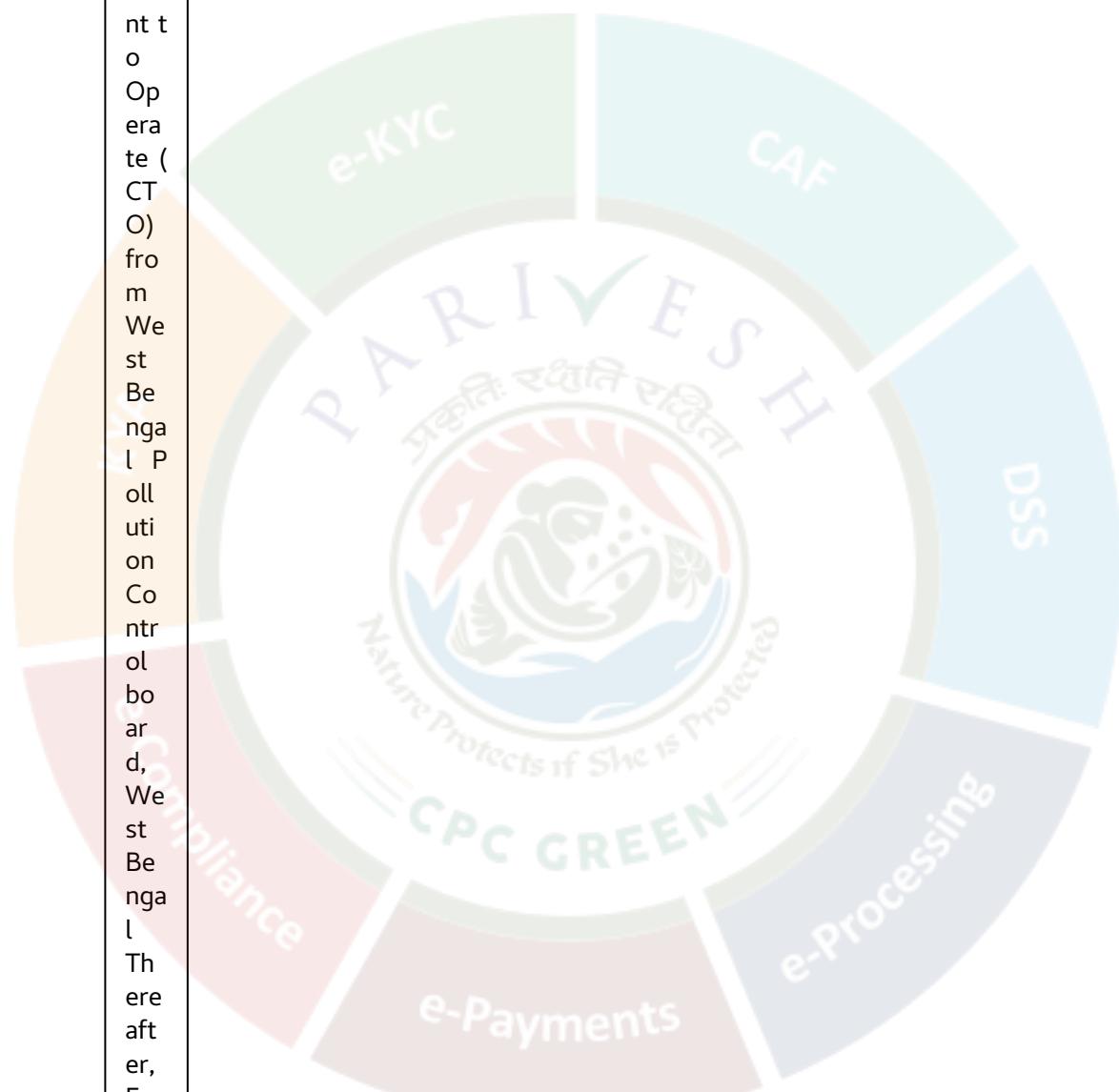
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| | <p>On perusal of the kml file, it is observed that some part of project facilities (in the center) are falling outside the project area. PP shall submit the revised kml file demarcating the project boundaries properly as per the geographical coordinates.</p> | <p>Up dated KML file has been uploaded to the relevant section.</p> |
| | <p>Last EC was granted on 10.02.2023 for</p> | <p>We would like to inform</p> |



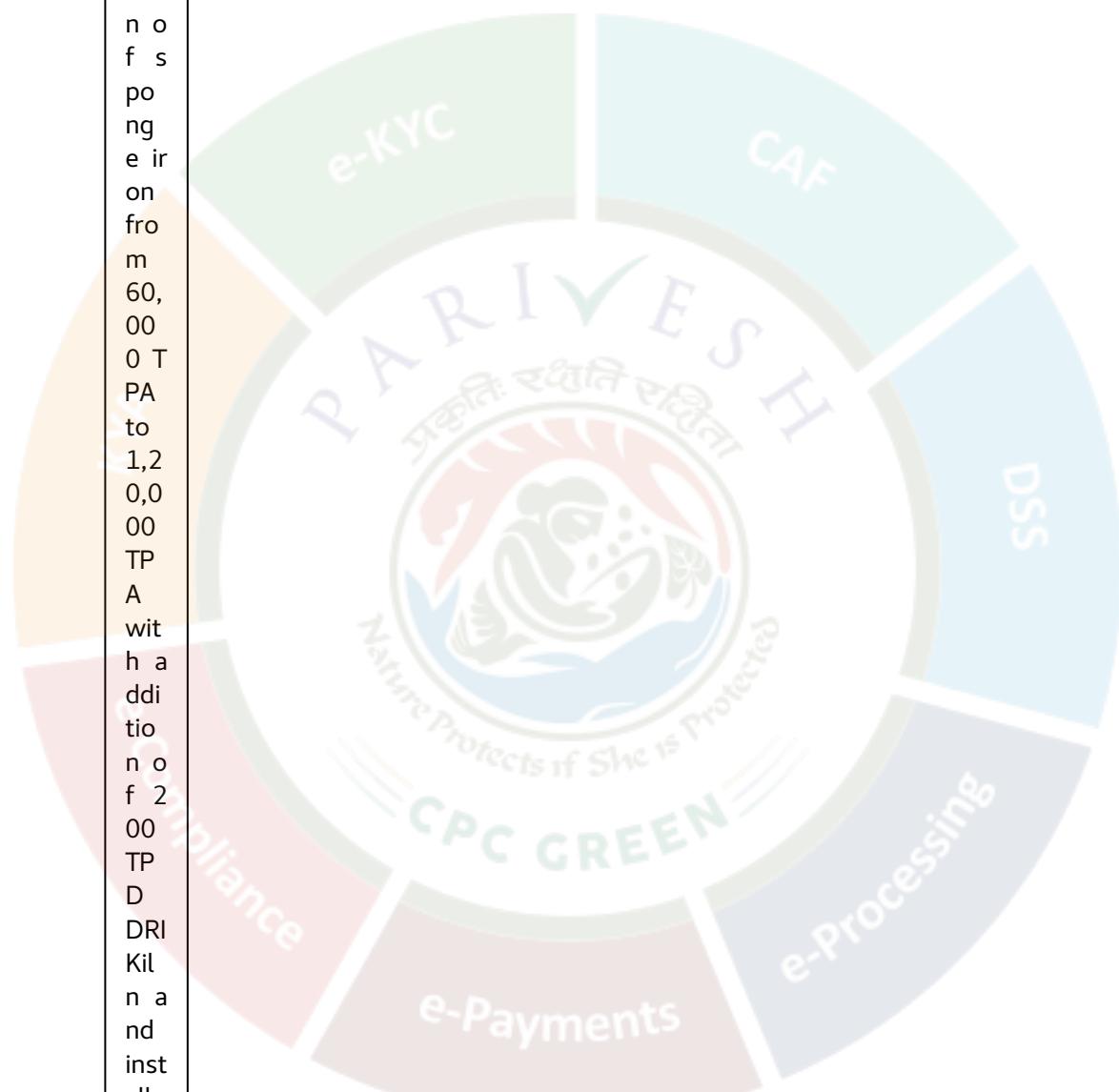
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| | <p>expansion under para 7(ii). PP shall submit the facility wise progress made as per the grant ed E C, duly supported with CT O issued by SPC B.</p> <p>capacity 60,000 TPA with 2 x 100 TP D DRI Kil n a fter obt aini ng Co nse nt t o E sta</p> | <p>you tha t, E arli er, pro ject wa s st art ed i n 2 00 2, f or pro duc tio n o f S po ng e Ir on of t ota l ca pac ity</p> <p>60, 00 0 T PA wit h 2 x 1 00 TP D DRI Kil n a fter obt aini ng Co nse nt t o E sta</p> <p>you tha t, E arli er, pro ject wa s st art ed i n 2 00 2, f or pro duc tio n o f S po ng e Ir on of t ota l ca pac ity</p> <p>60, 00 0 T PA wit h 2 x 1 00 TP D DRI Kil n a fter obt aini ng Co nse nt t o E sta</p> |



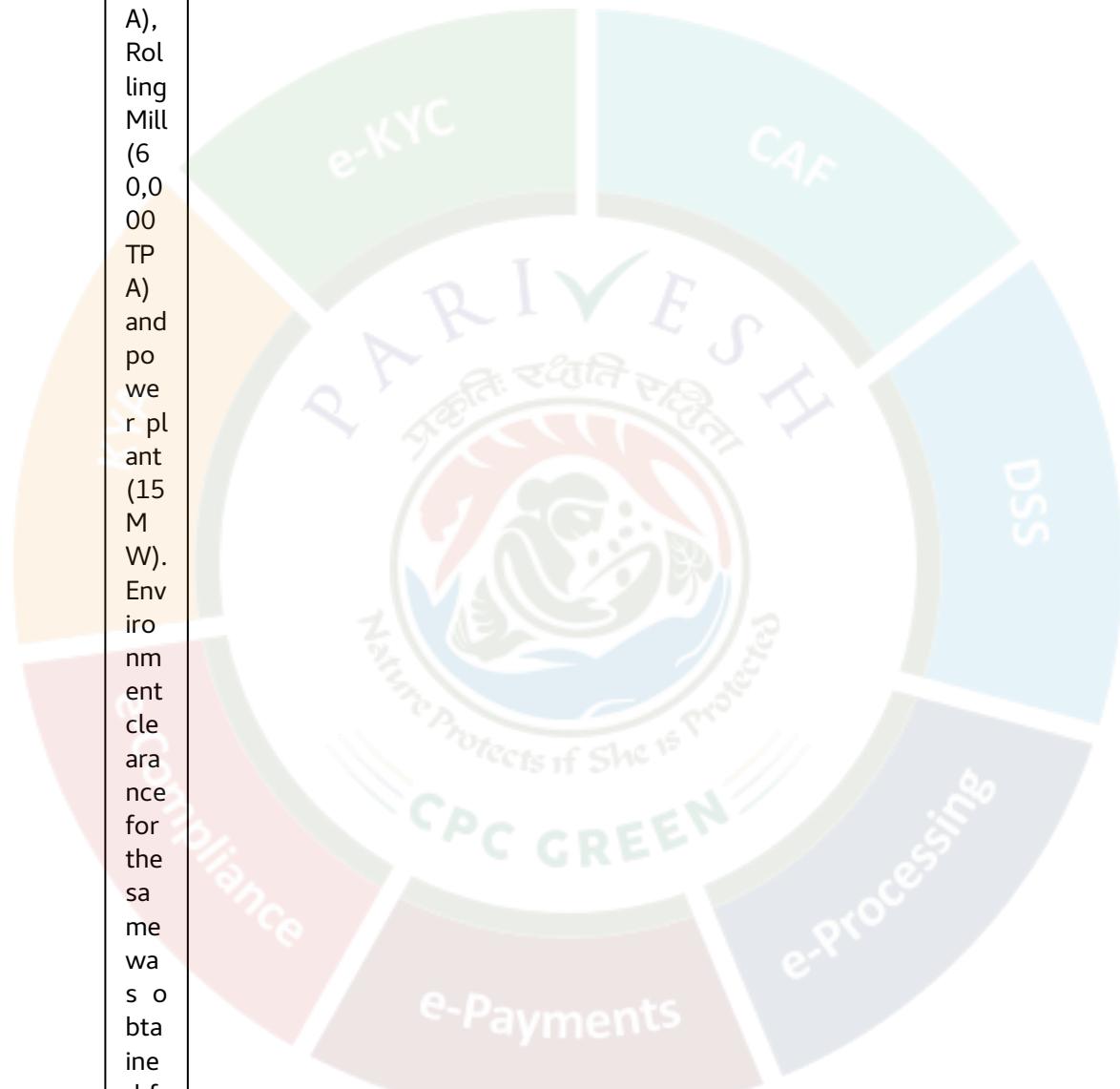
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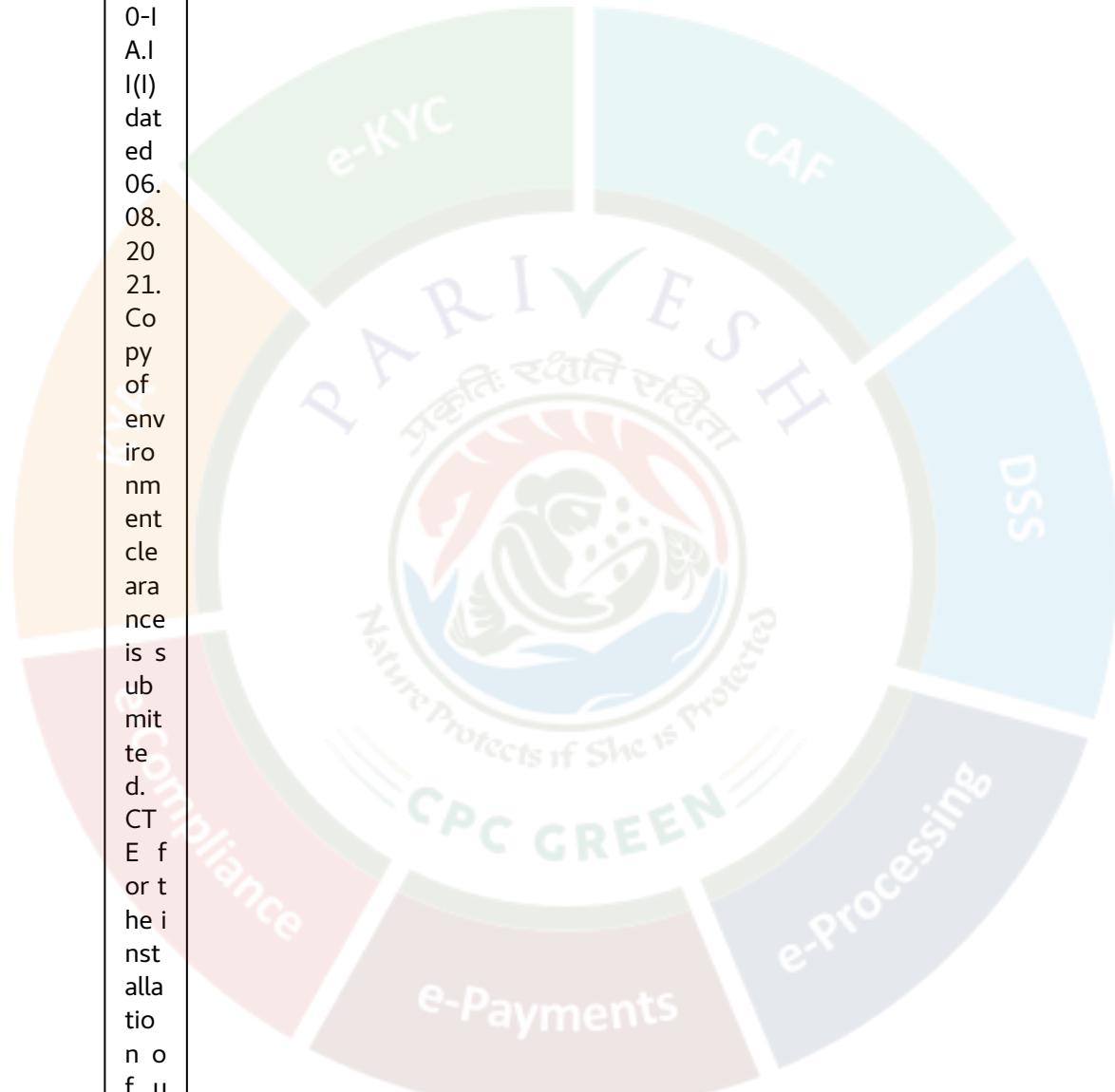
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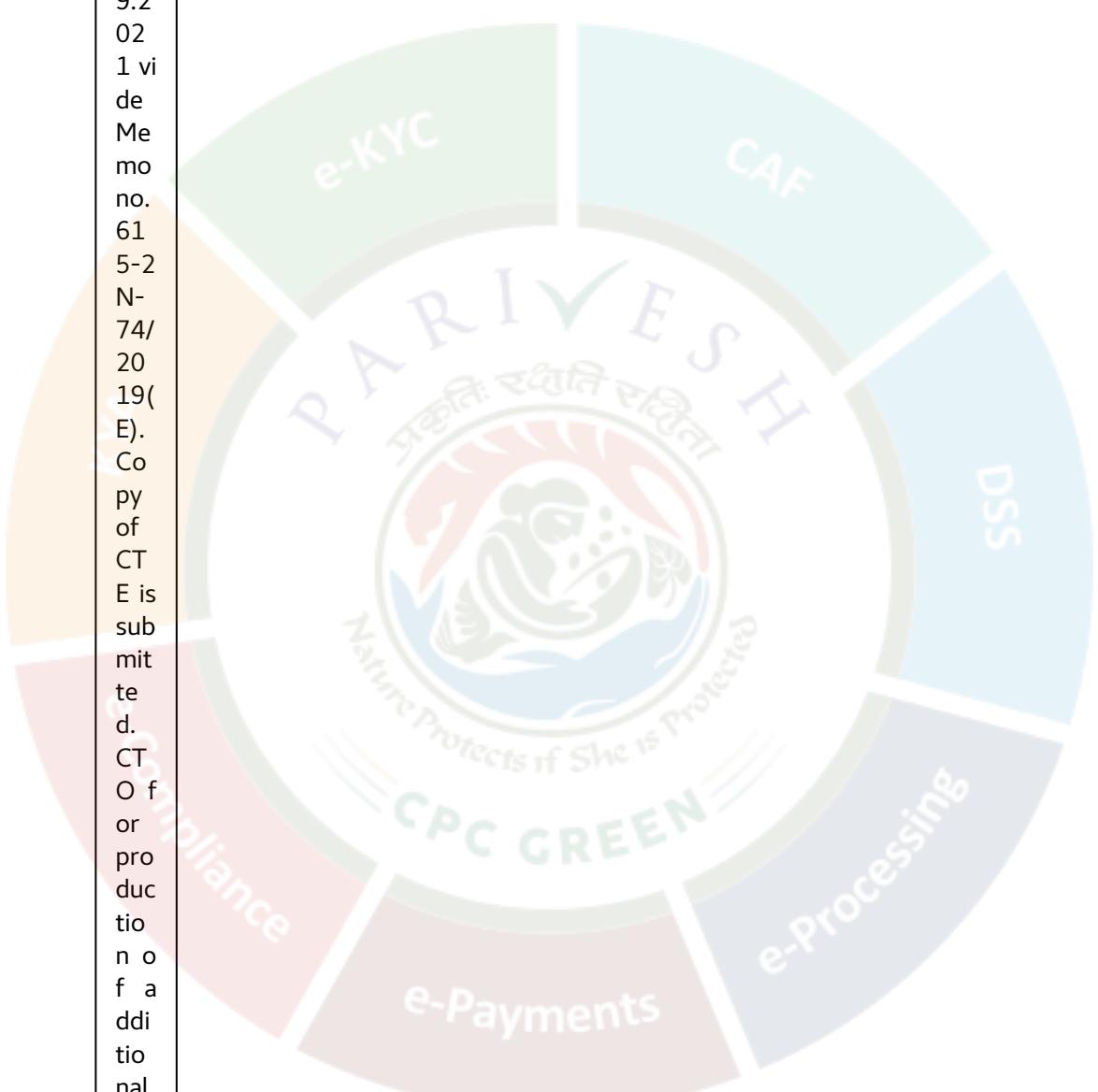


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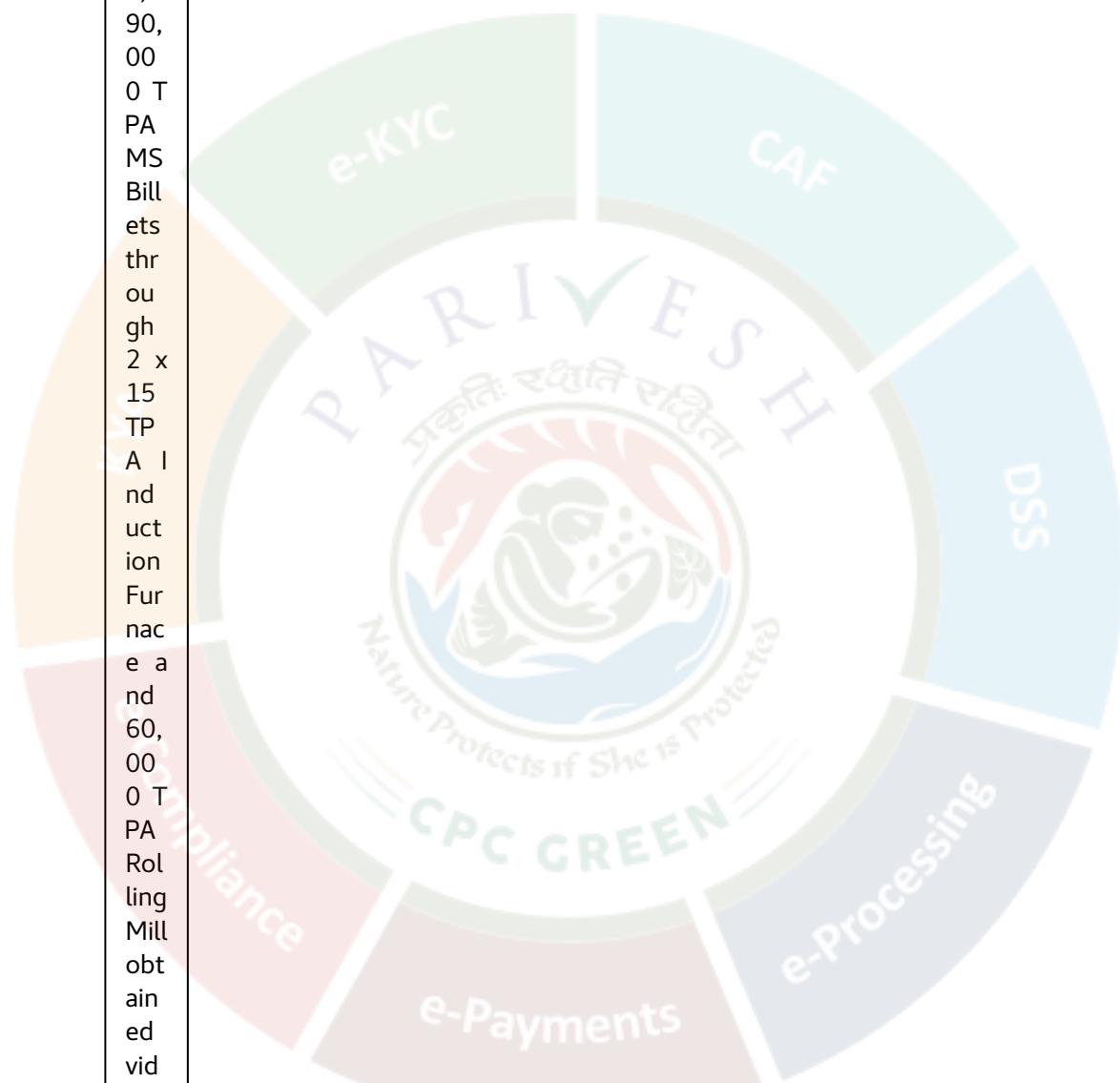


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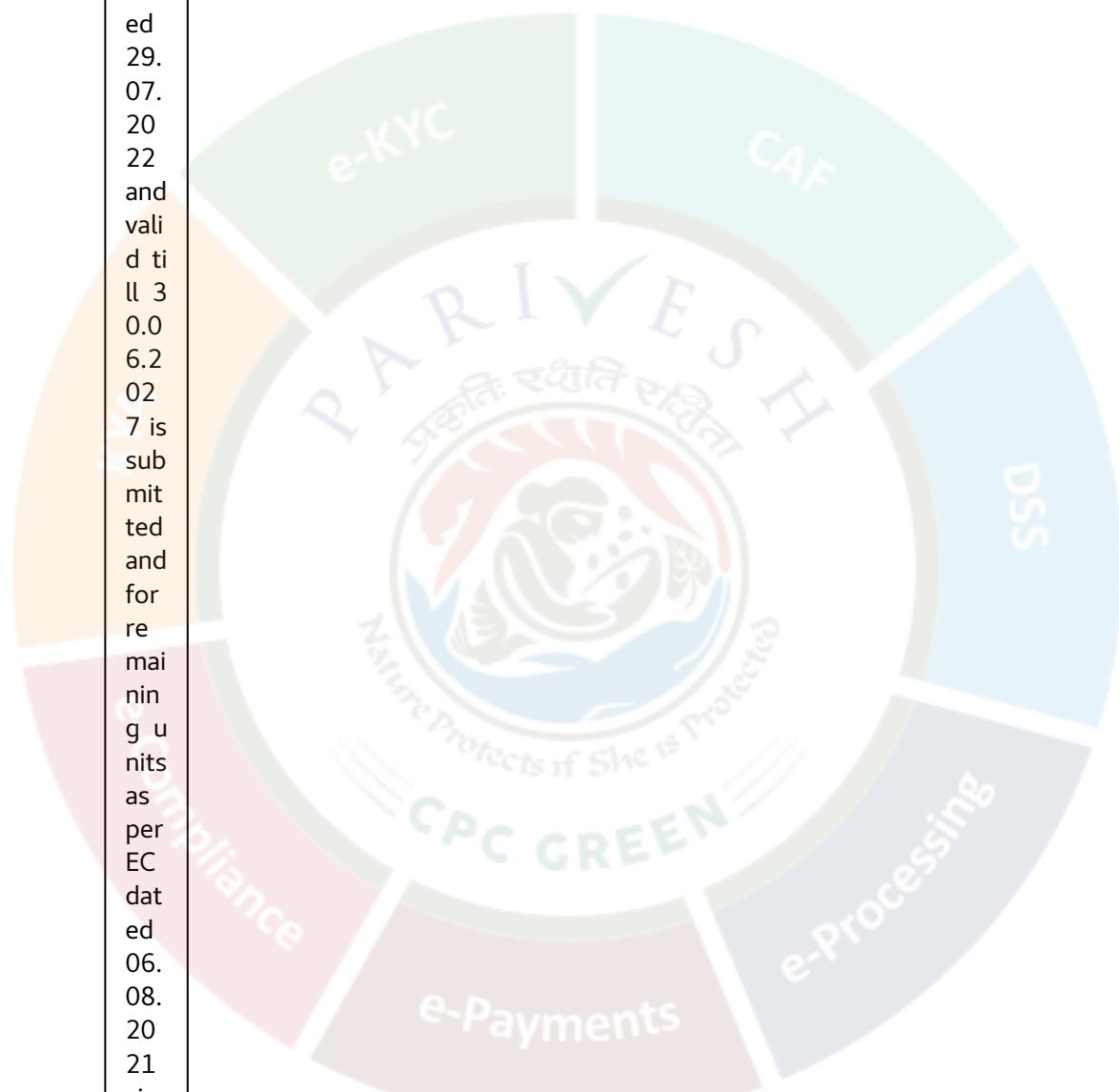


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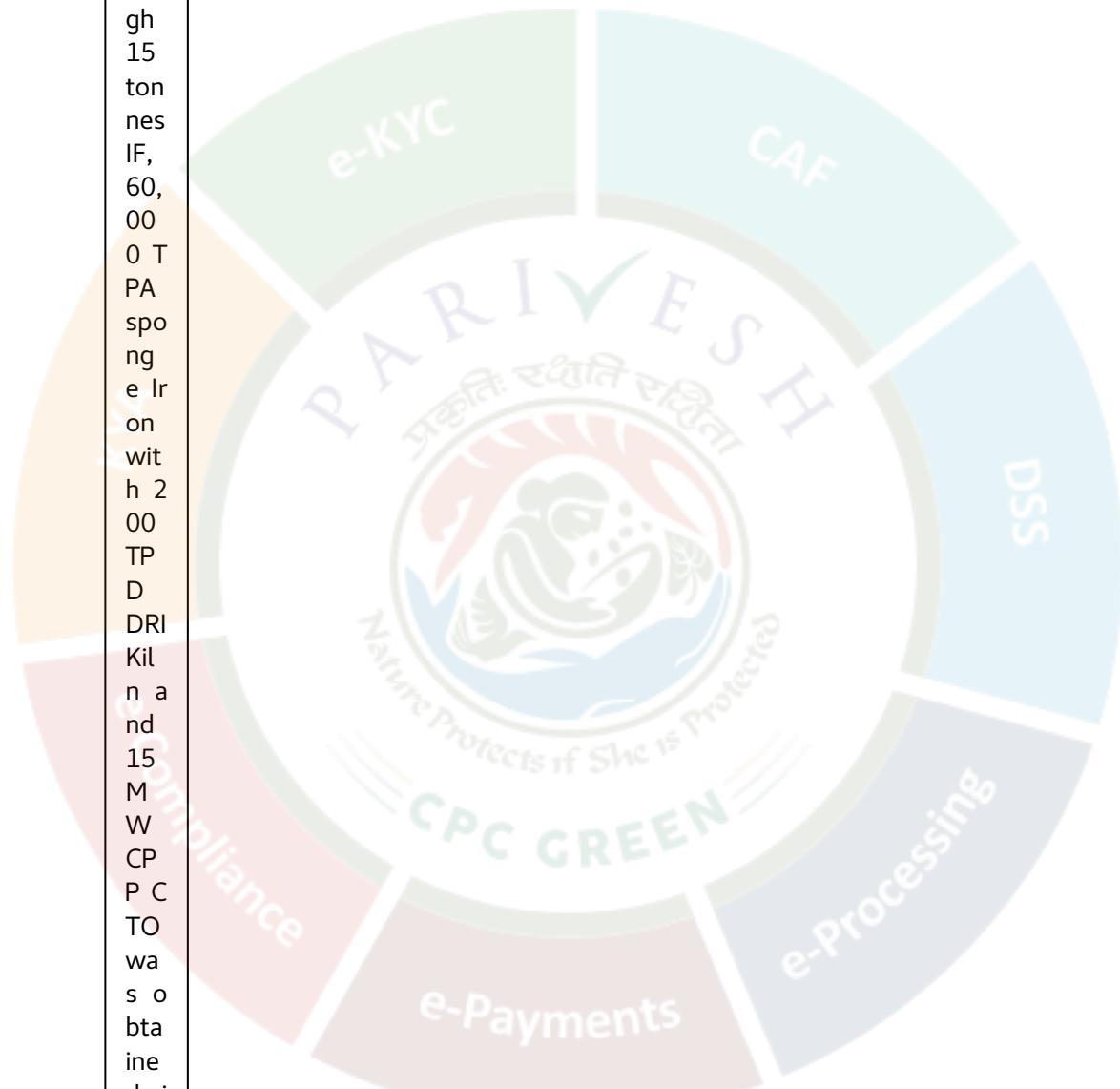
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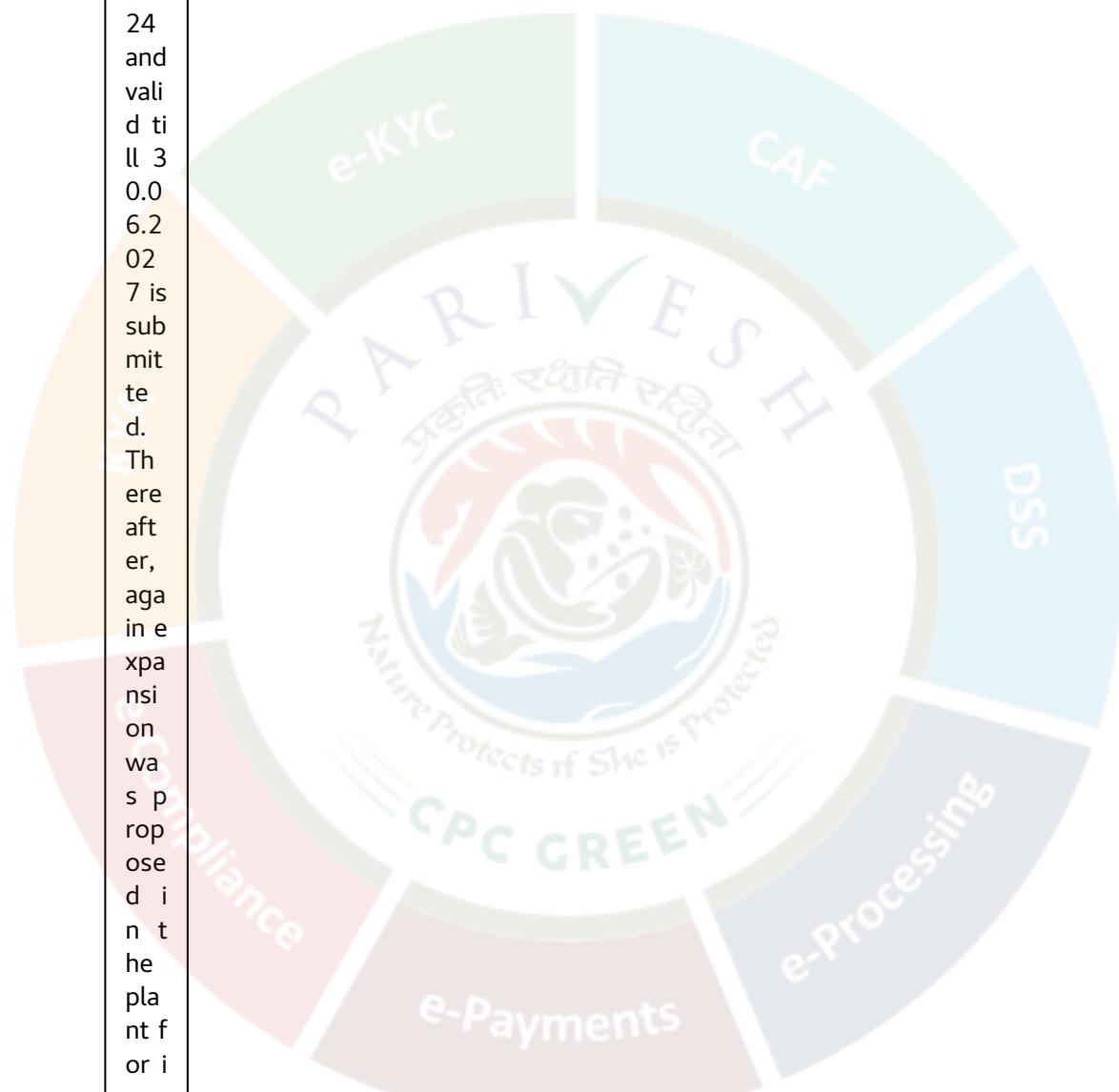
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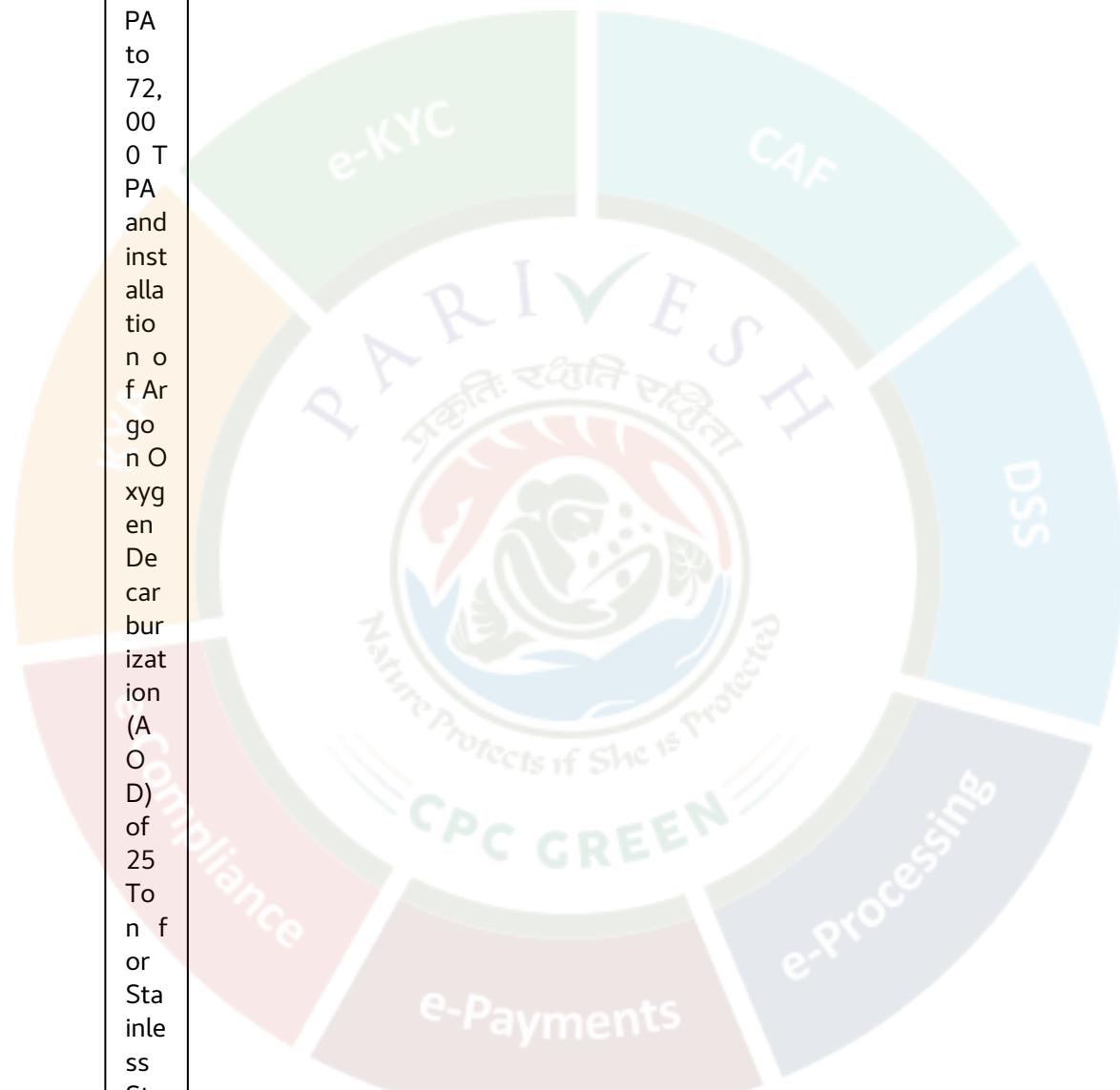
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| | TP A MS Bill ets thr ou gh 15 ton nes IF, 60, 00 0 T PA spo ng e Ir on wit h 2 00 TP D DRI Kil n a nd 15 M W CP P C TO wa s o bta ine d vi de Me mo No. W BP C B/4 81 67 18/ | TP A MS Bill ets thr ou gh 15 ton nes IF, 60, 00 0 T PA spo ng e Ir on wit h 2 00 TP D DRI Kil n a nd 15 M W CP P C TO wa s o bta ine d vi de Me mo No. W BP C B/4 81 67 18/ |



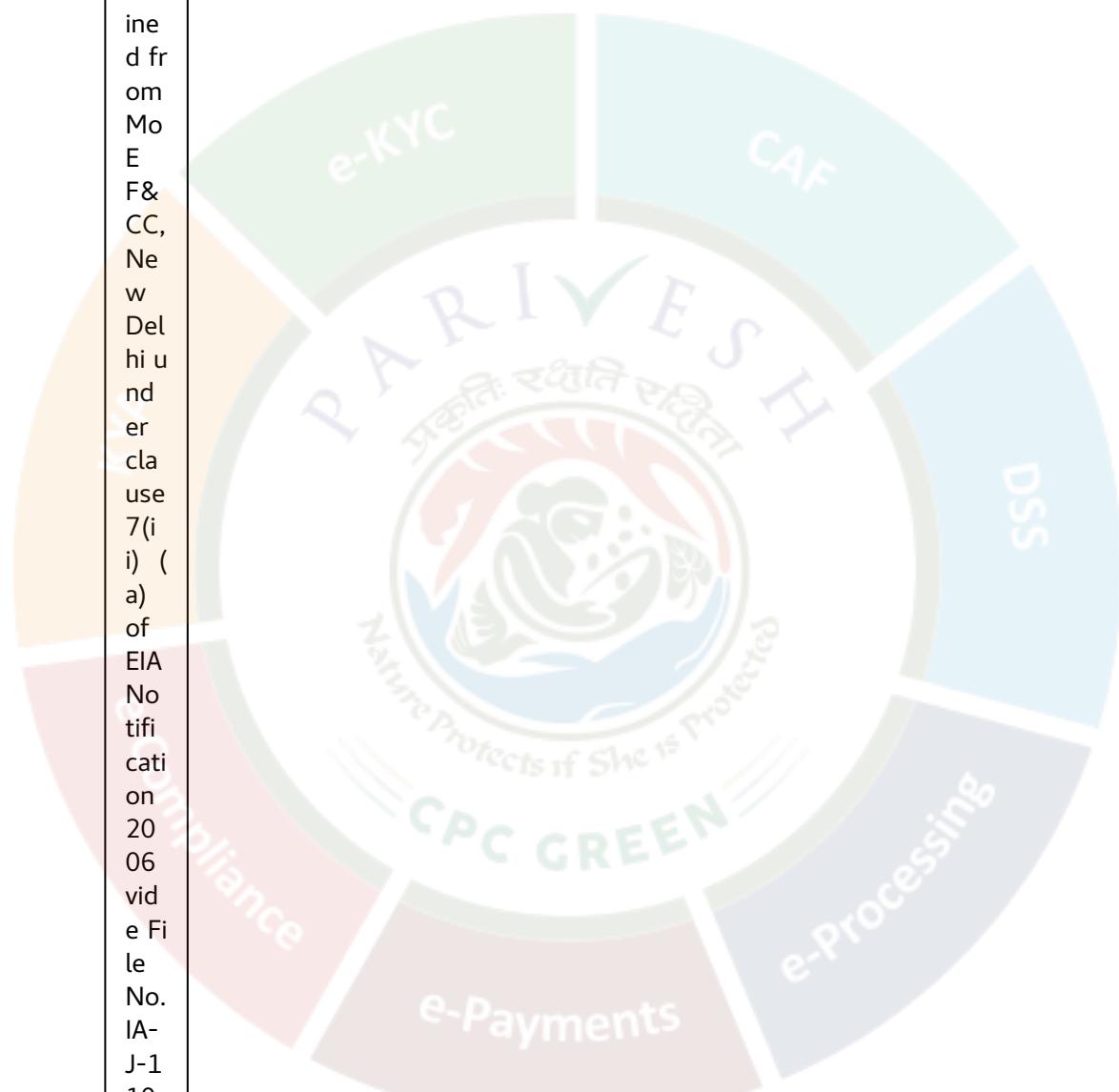
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| | 20 24 dat ed 03. 04. 20 24 and vali d ti ll 3 0.0 6.2 02 7 is sub mit te d. Th ere aft er, aga in e xpans ion wa s p rop ose d i n t he pla nt f or i ncre as ing the pro duc tio n c apa city of Rol | 20 24 dat ed 03. 04. 20 24 and vali d ti ll 3 0.0 6.2 02 7 is sub mit te d. Th ere aft er, aga in e xpans ion wa s p rop ose d i n t he pla nt f or i ncre as ing the pro duc tio n c apa city of Rol |



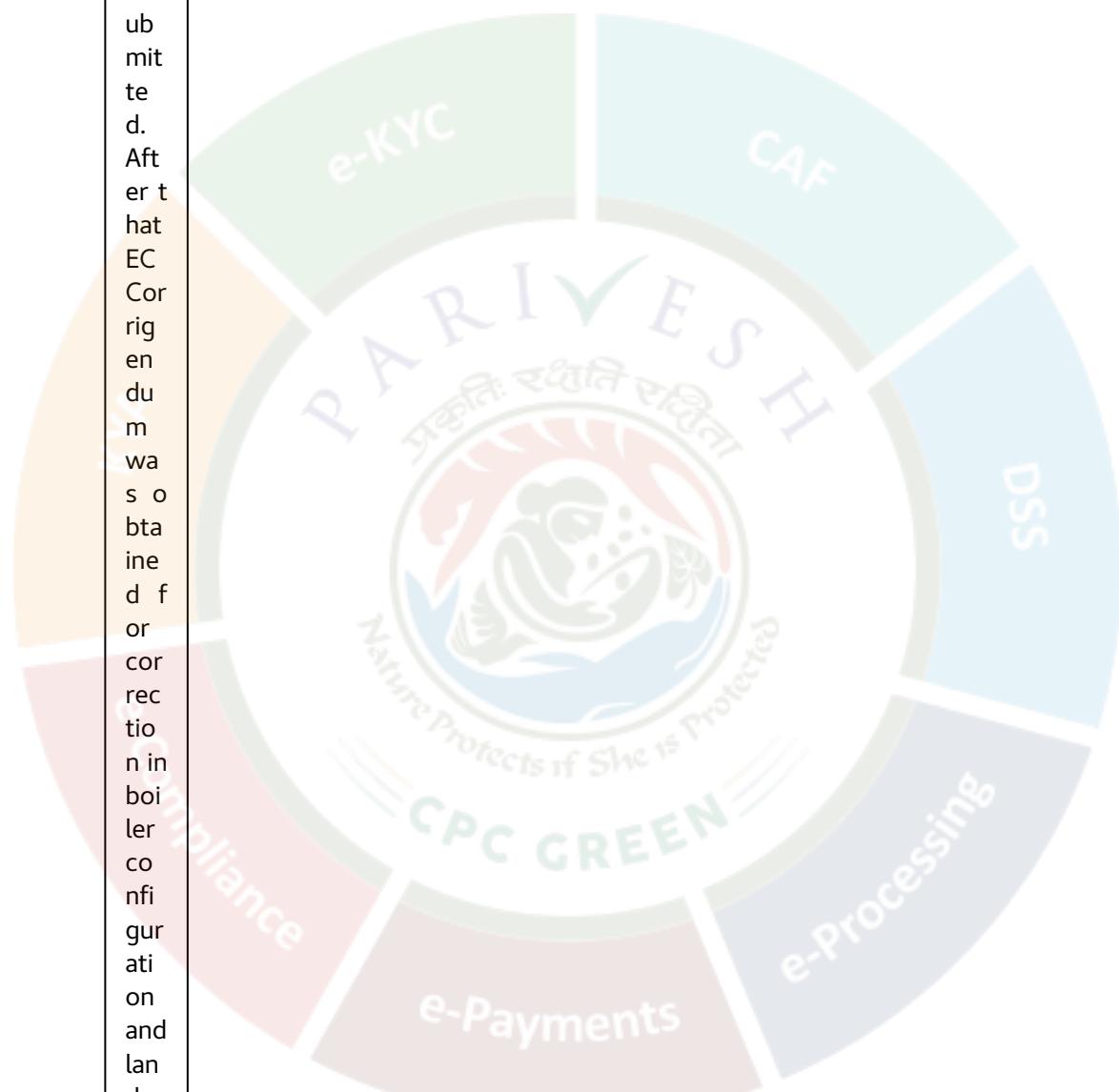
| S. N o. | Queri es | Re pl y |
|---------|---|--|
| | <p>ling Mill from 60, 00 0 T PA to 72, 00 0 T PA and installation of Argon Oxygen Oxygen Decarburation (AOD) of 25 Ton for Stainless Steel Products. Environment clea rance</p> | <p>Mill from 60, 00 0 T PA to 72, 00 0 T PA and installation of Argon Oxygen Oxygen Decarburation (AOD) of 25 Ton for Stainless Steel Products. Environment clea rance</p> |



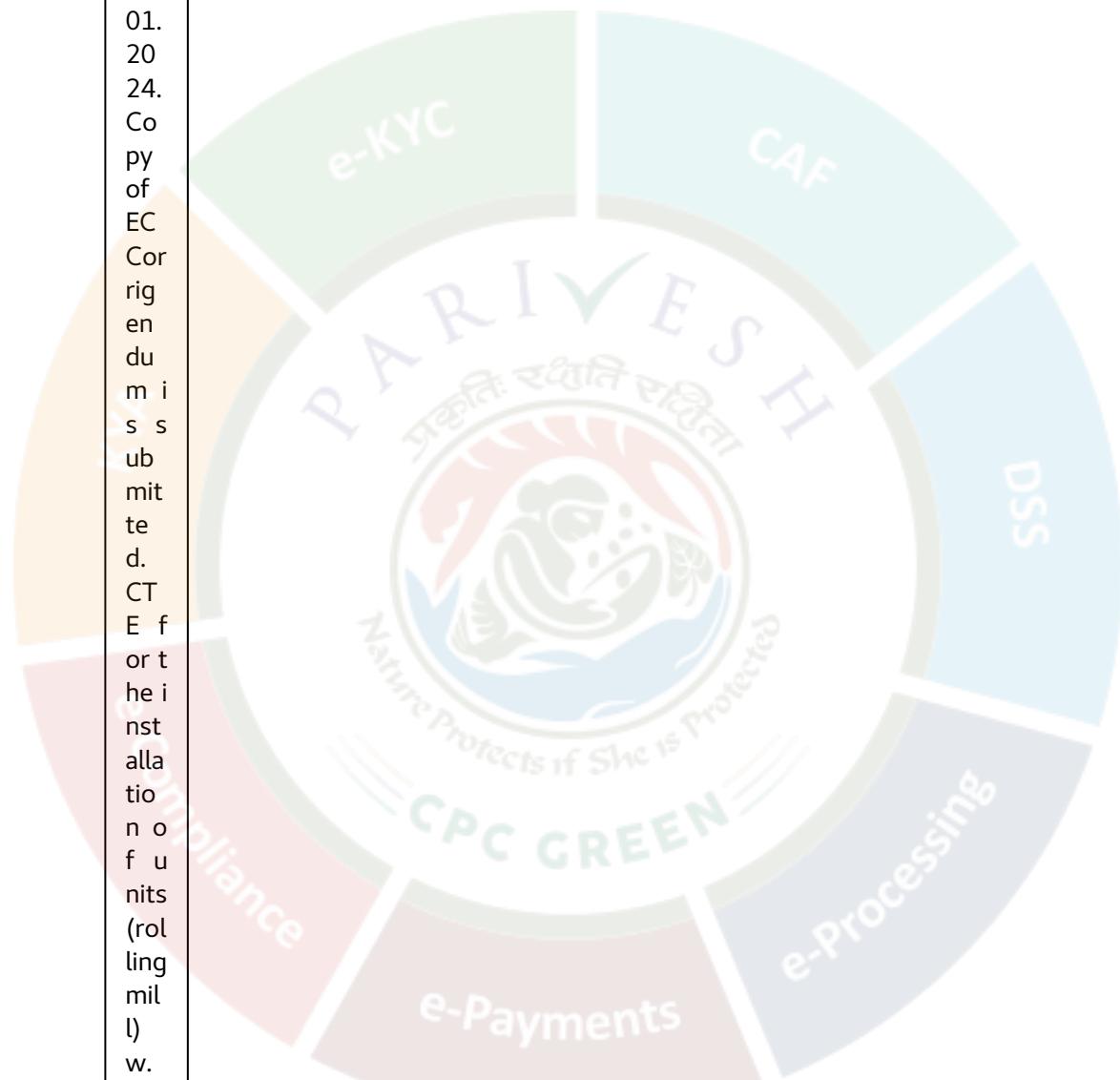
| S. N o. | Queri es | Re pl y |
|---------|----------|--|
| | | <p>for the same was o bta ined fr om Mo E F& CC, New Del hi u nd er cla use 7(i i) (a) of EIA Notifi cati on 20 06 vid e Fi le No. IA- J-1 10 11/ 25 3/2 02 0-I A.I I(I) dat ed 10. 02.</p> |



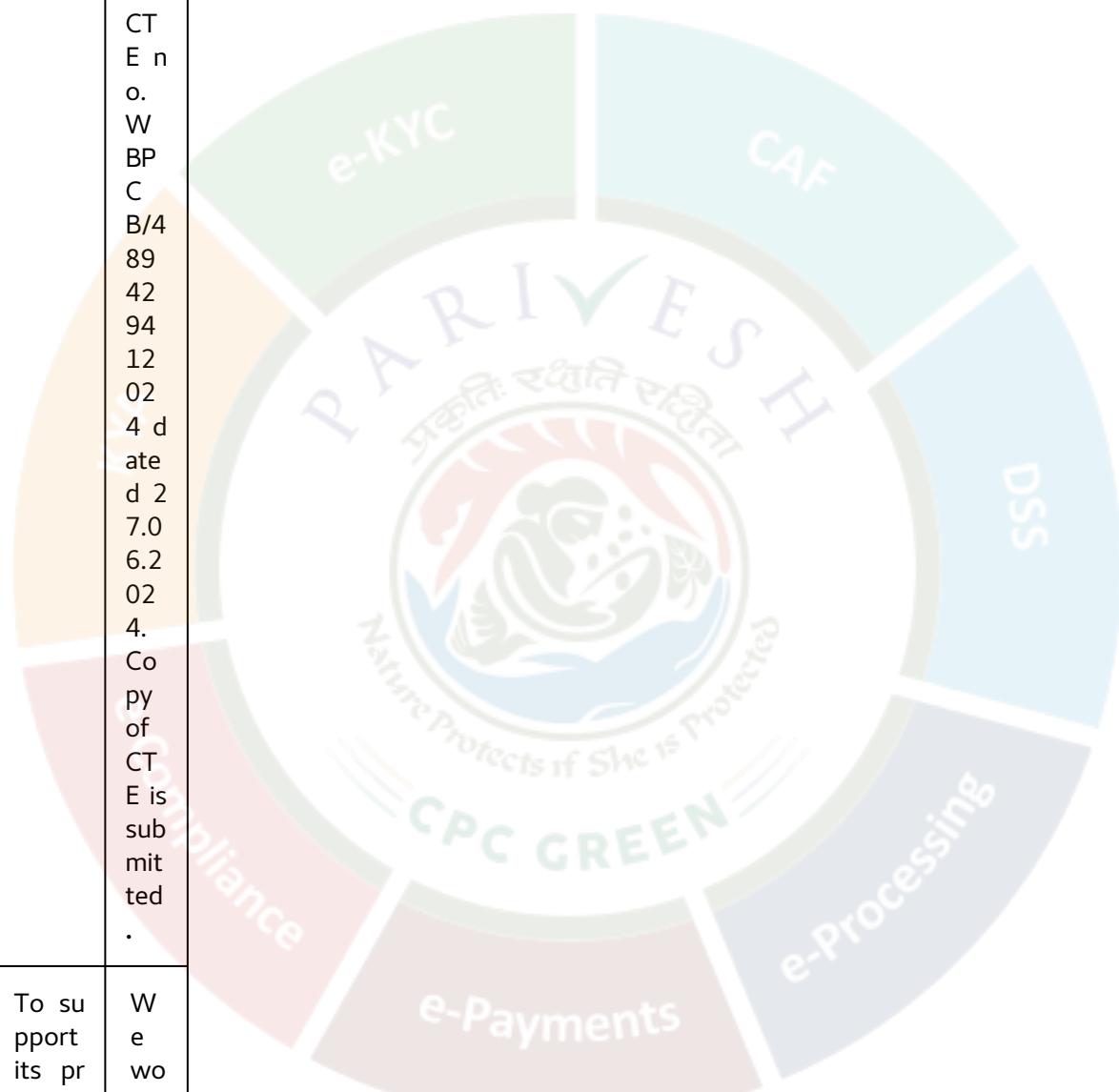
| S. N o. | Queri es | Re pl y |
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| | | 20 23. Co py of EC is s ub mit te d. Aft er t hat EC Cor rig en du m wa s o bta ine d f or cor rec tio n in boi ler co nfi gur ati on and lan d a rea vid e fi le n o. I A- J-1 10 11/ 25 3/2 |



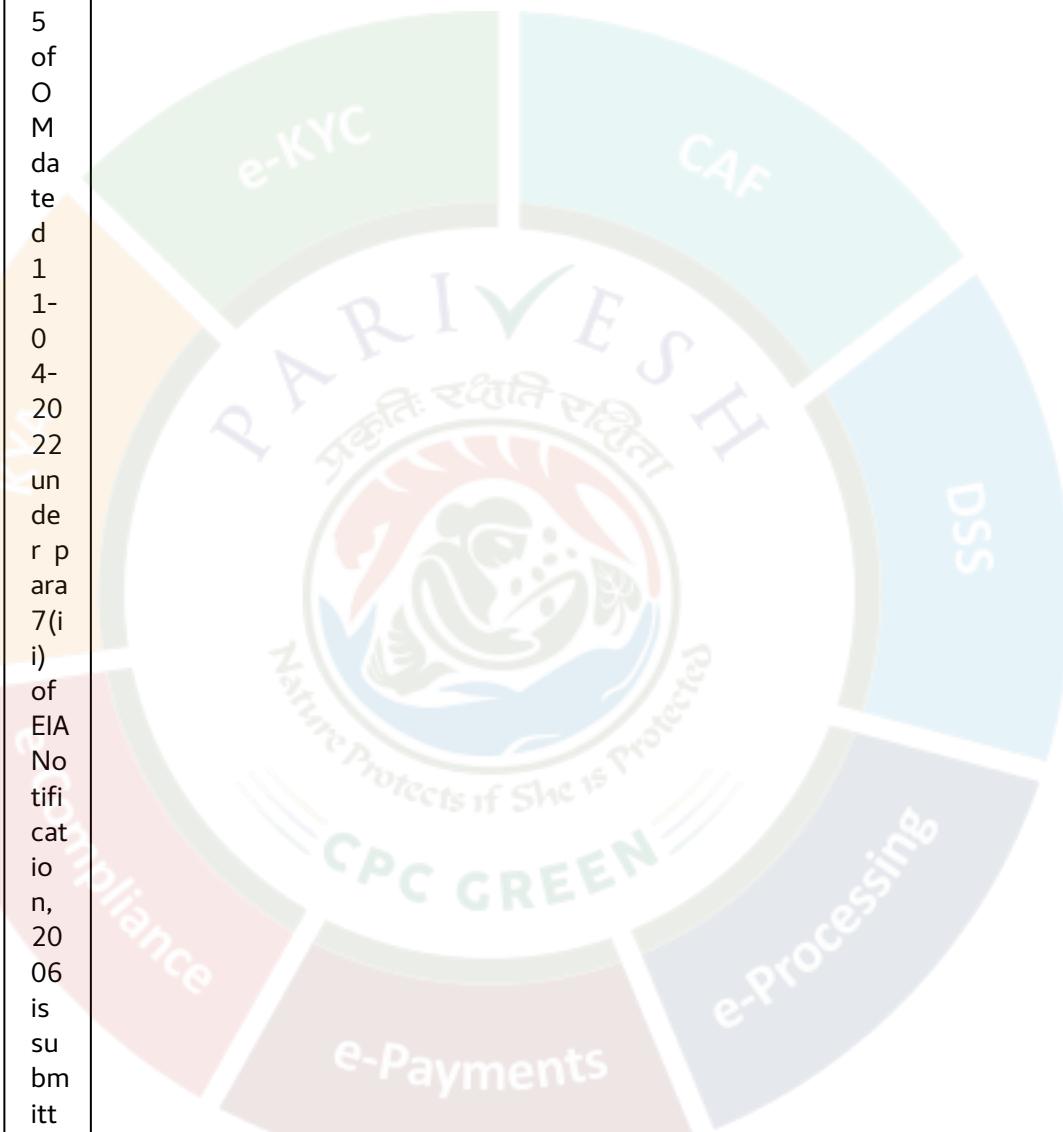
| S. N o. | Queri es | Re pl y |
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| | 02 0-1 A.I I(I) dat ed 23. 01. 20 24. Co py of EC Cor rig en du m i s s ub mit te d. CT E f or t he i nst alla tio n o f u nits (rol ling mil l) w. r.t. EC dat ed 10. 02. 20 23 wa s o bta ine | 02 0-1 A.I I(I) dat ed 23. 01. 20 24. Co py of EC Cor rig en du m i s s ub mit te d. CT E f or t he i nst alla tio n o f u nits (rol ling mil l) w. r.t. EC dat ed 10. 02. 20 23 wa s o bta ine |



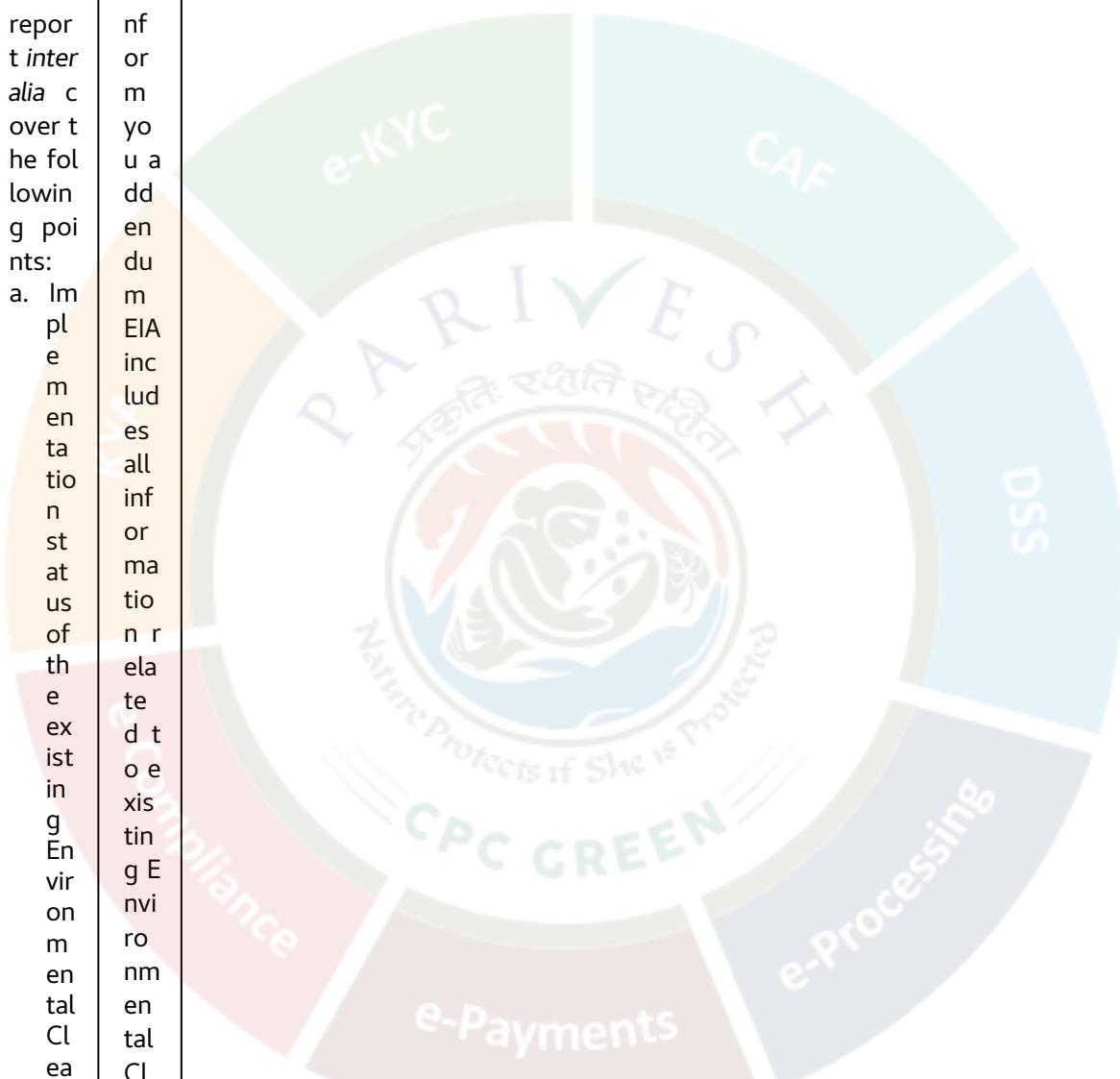
| S. N o. | Queri es | Re pl y |
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| | d o n 2 7.0 6.2 02 4 vi de CT E n o. W BP C B/4 89 42 94 12 02 4 d ate d 2 7.0 6.2 02 4. Co py of CT E is sub mit ted . | d o n 2 7.0 6.2 02 4 vi de CT E n o. W BP C B/4 89 42 94 12 02 4 d ate d 2 7.0 6.2 02 4. Co py of CT E is sub mit ted . |
| | To sup port its pr oposa l for e xpans ion as per th e pro vision s of OM d ated 11-0 4-20 | W e wo uld lik e t o i nf or m yo u t hat co mp |



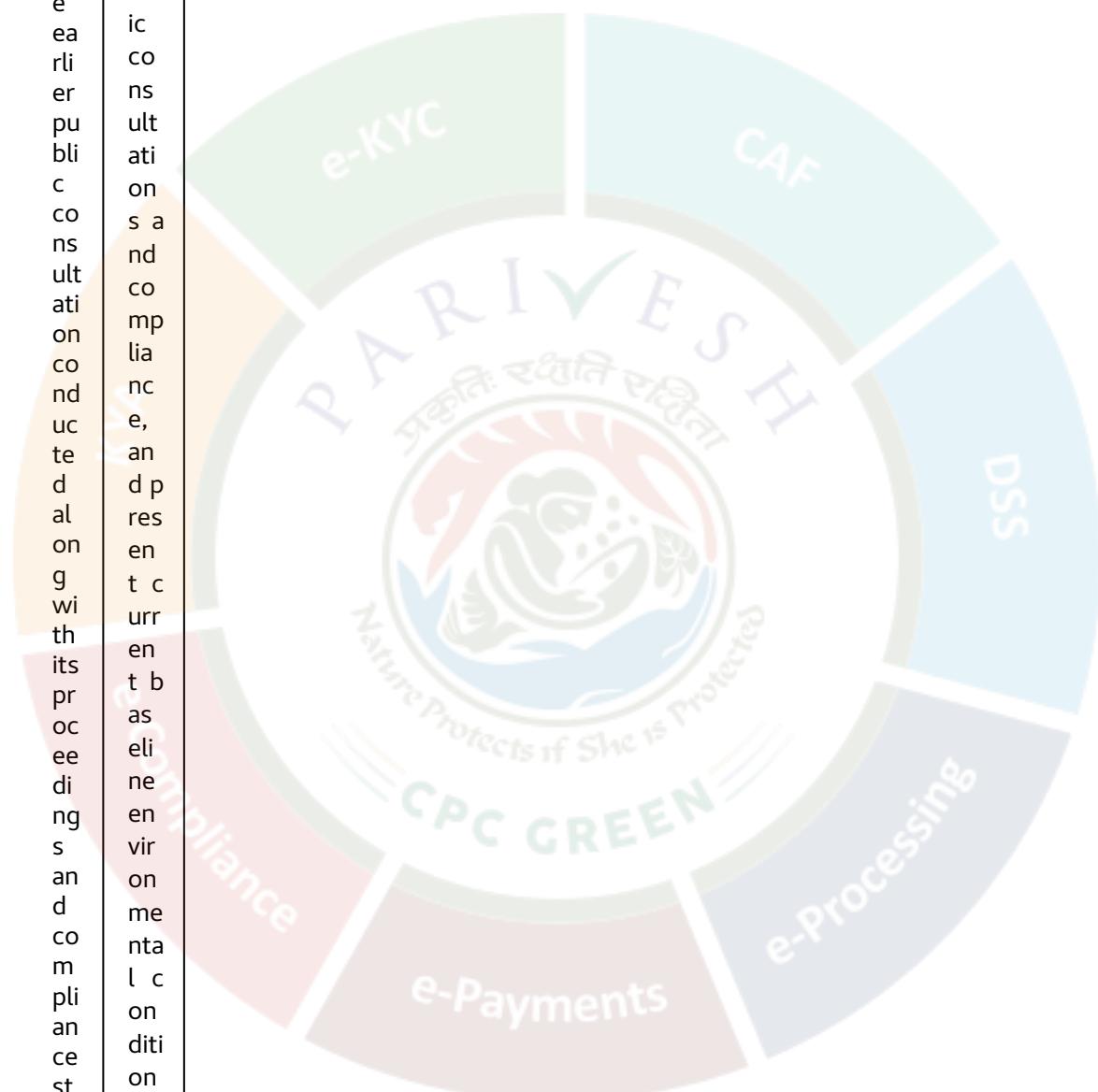
| S. N o. | Queri es | Re pl y |
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| | 22 un der p ara 7(ii) of EIA N otific ation, 2006, PP sh all su bmit t he a c ompli ance i n a ta bular form of Par a 4 an d 5 of Minist ry's O.M. dated 11.0 4.202 2 pert aining to gui deline s for granti ng EC under para 7(ii) t o che ck wh ether the in stant prop osal qu alifies to be apprai sed u nder para 7(ii) (a) | lia nc e o f p ara 4 a nd 5 of O M da te d 1- 0 4- 20 22 un de r p dated 11.0 7(i i) of EIA No tifi cat io n, 20 06 is su bmit ed. |



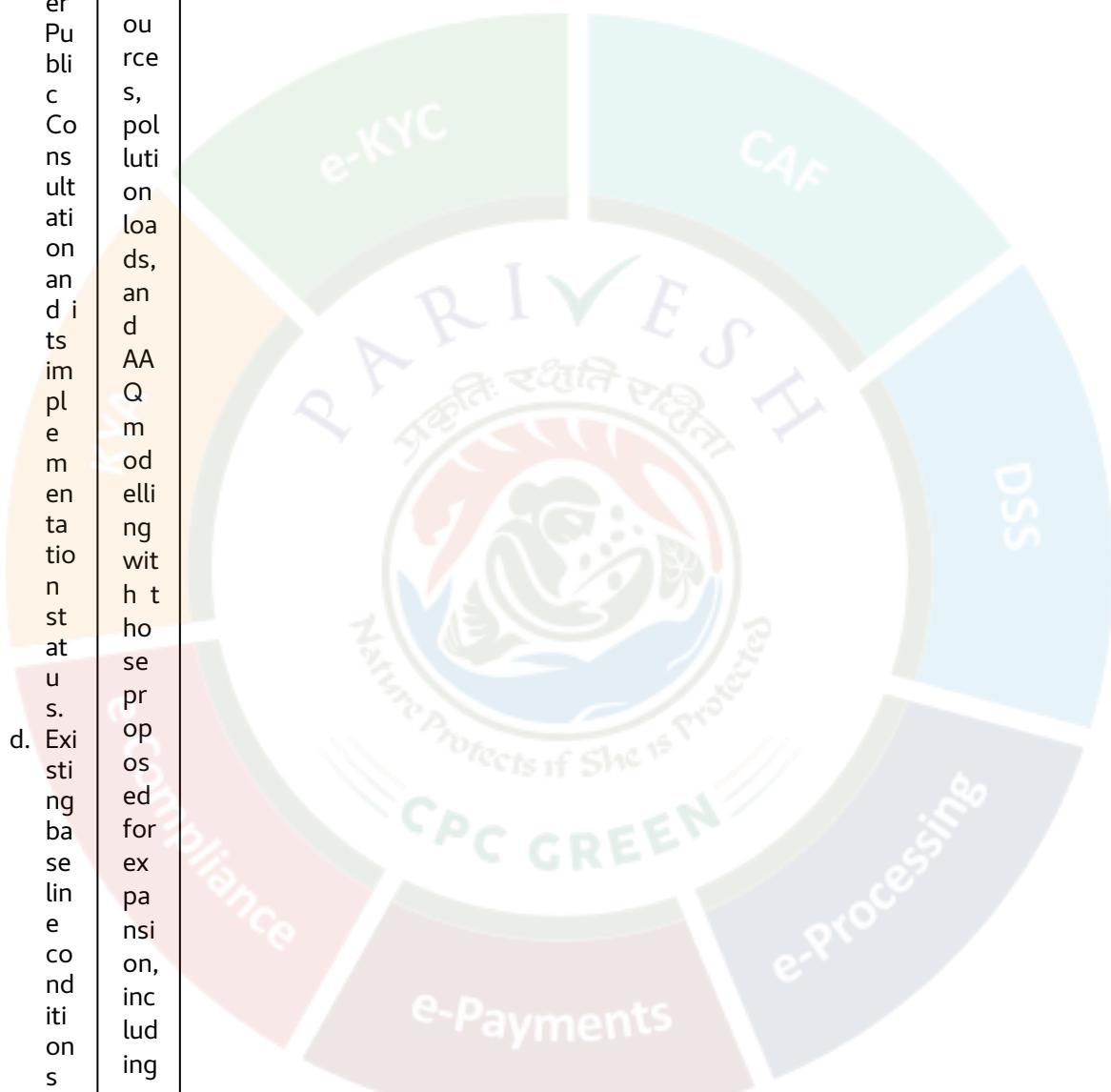
| S. N o. | Queri es | Re pl y |
|---------|--|---|
| | <p>PP shall ensure that the Addendum EIA report <i>inter alia</i> covers the following points:</p> <p>a. Implementation status of the existing Environmental Clearance, duly supported through</p> | <p>W e wo uld lik e t o i nf or m yo u a dd en du m EIA inc lud es all inf or ma tio n r elate d t o e xis tin g E nvi ro nm en tal Cl ear an ce wit h CT O su pp ort, s um</p> |



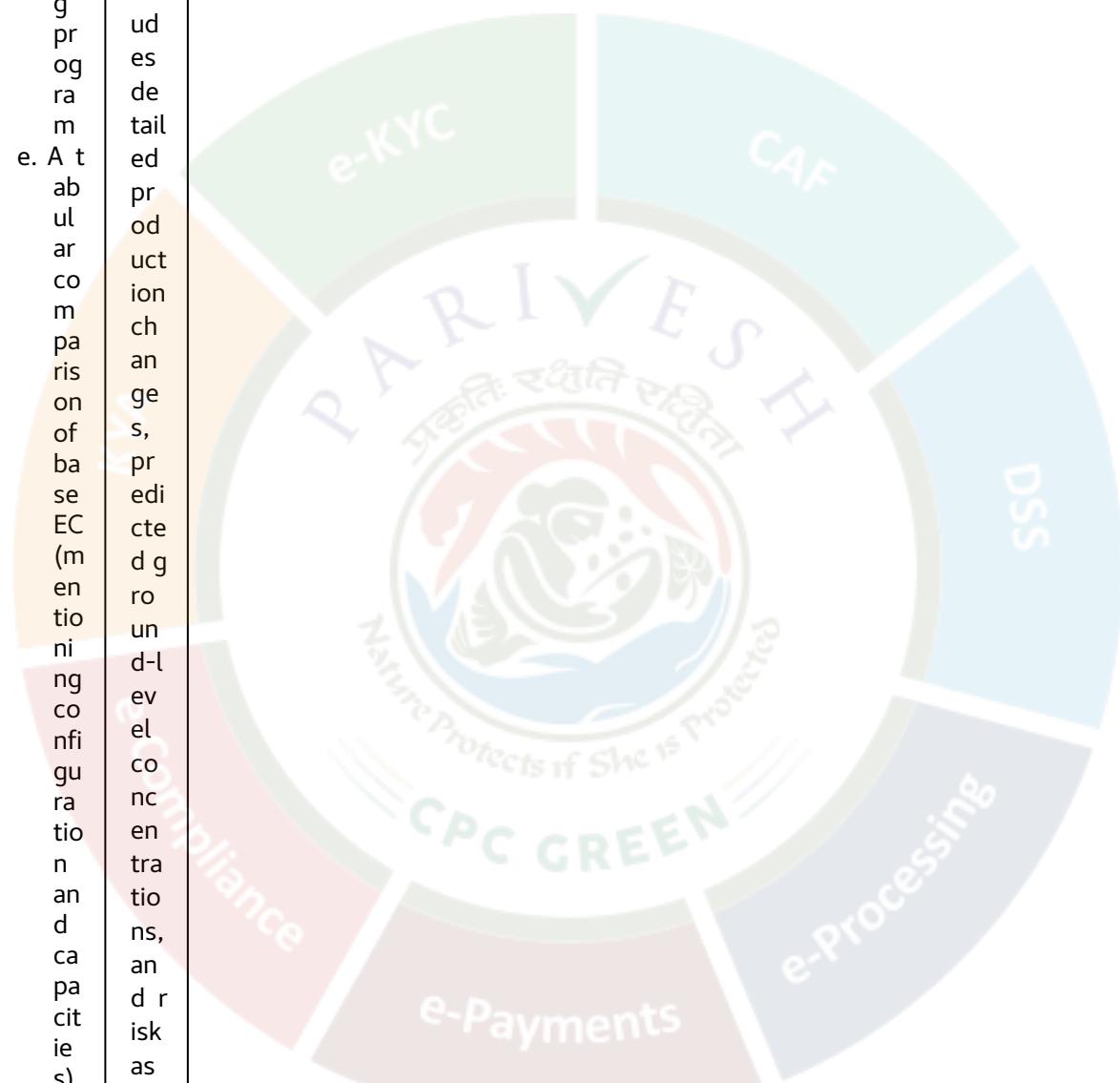
| S. N o. | Queri es | Re pl y |
|---------|--|---|
| | b. CT O. Details of the earlier public consultation conducted along with its proceedings and compliance statement us | mariz e p reviou s p ubl ic co ns ultati on s a nd co mp lia nc e, an d p resen t c urren t b aseli ne en vir onme ntal conditi on s. It also includes original EC ca |
| | c. Summary of issues raised | |



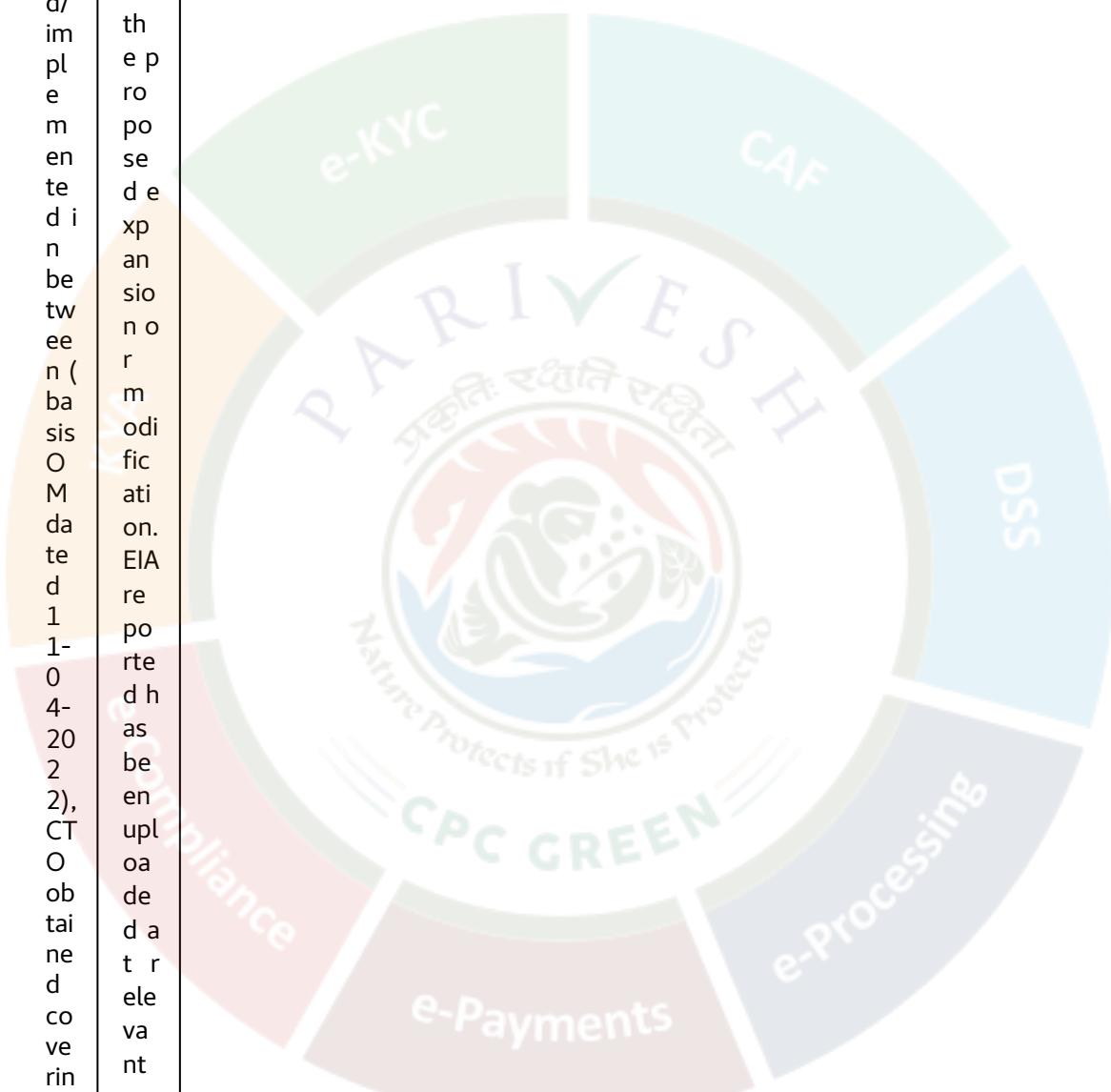
| S. N o. | Queri es | Re pl y |
|---------|--|---|
| | ed du rin g t he ea rli er Pu blic Co ns ult ati on and i ts im pl emen tatio n st atus. d. Existi ng ba se lin e co nd iti on s ba sed on th e pe rio dic en vir on | pa citi es, lay ou ts, res ou rce s, pol lutio n loa ds, an d AA Q m od elli ng wit h t ho se pr op os ed for ex pa nsion, inc luding an y i nt er me dia te EC s o r C TO s. |



| S. N o. | Quer i es | Re pl y |
|---------|---|---|
| | m en tal m on ito rin g pr og ra m e. A t ab ul ar co m pa ris on of ba se EC (m en tio ni ng co nfi gu ra tio n an d ca pa cit ie) on w hi ch ex pa ns io n i s s ou gh t, | Th e r ep ort als o i ncl ud es de tail ed pr od uct ion ch an ge s, pr edi cte d g ro un d-l ev el co nc en tra tio ns, an d r isk as se ss me nt wit h n ec es sar y mi tig |

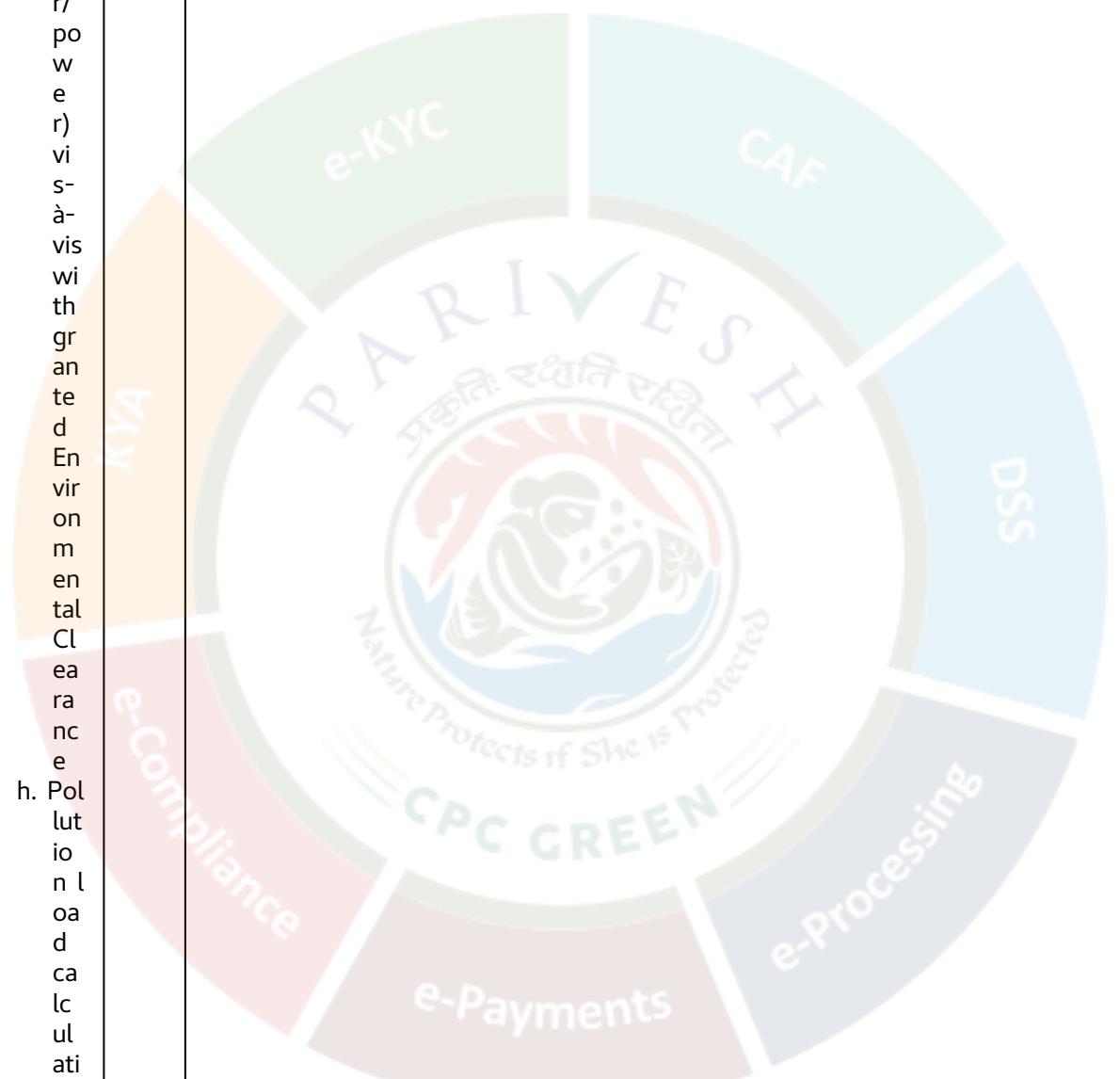


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|---------|---|--|
| | An y EC s ob tai ne d/ im pl e m en te d i n be twe en (ba sis O M da te d 1 1- 0 4- 20 2 2), CT O ob tai ne d co ve rin g Pr op os ed Ex pa ns io n or M od | ati on me as ur es for th e p ro po se d e xp an sio n o r m odi fic ati on. EIA re po rte d h as be en upl oa de d a t ele va nt se cti on on pa riv es h p ort al. |

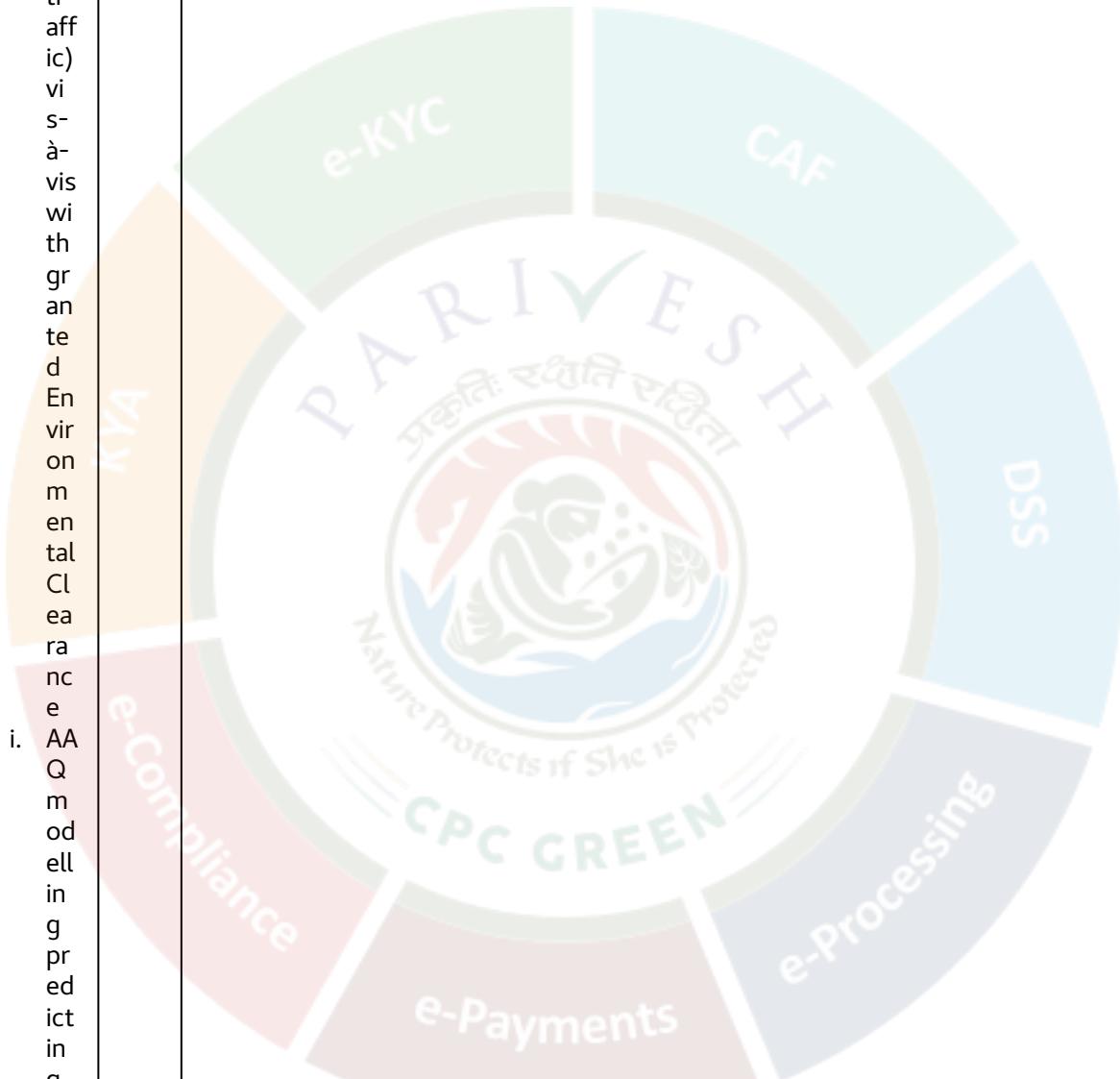


| S. N o. | Queri es | Re pl y |
|---------|--|---------|
| | <p>er ni za tio n or Ch an ge of pr od uct mi x vi s- à- vis wi th gr an te d EC ca pa cit y al on g wi th pe rc en ta ge of in cre ase in pr od uc tio n.</p> <p>f. Pro po se d</p> | |

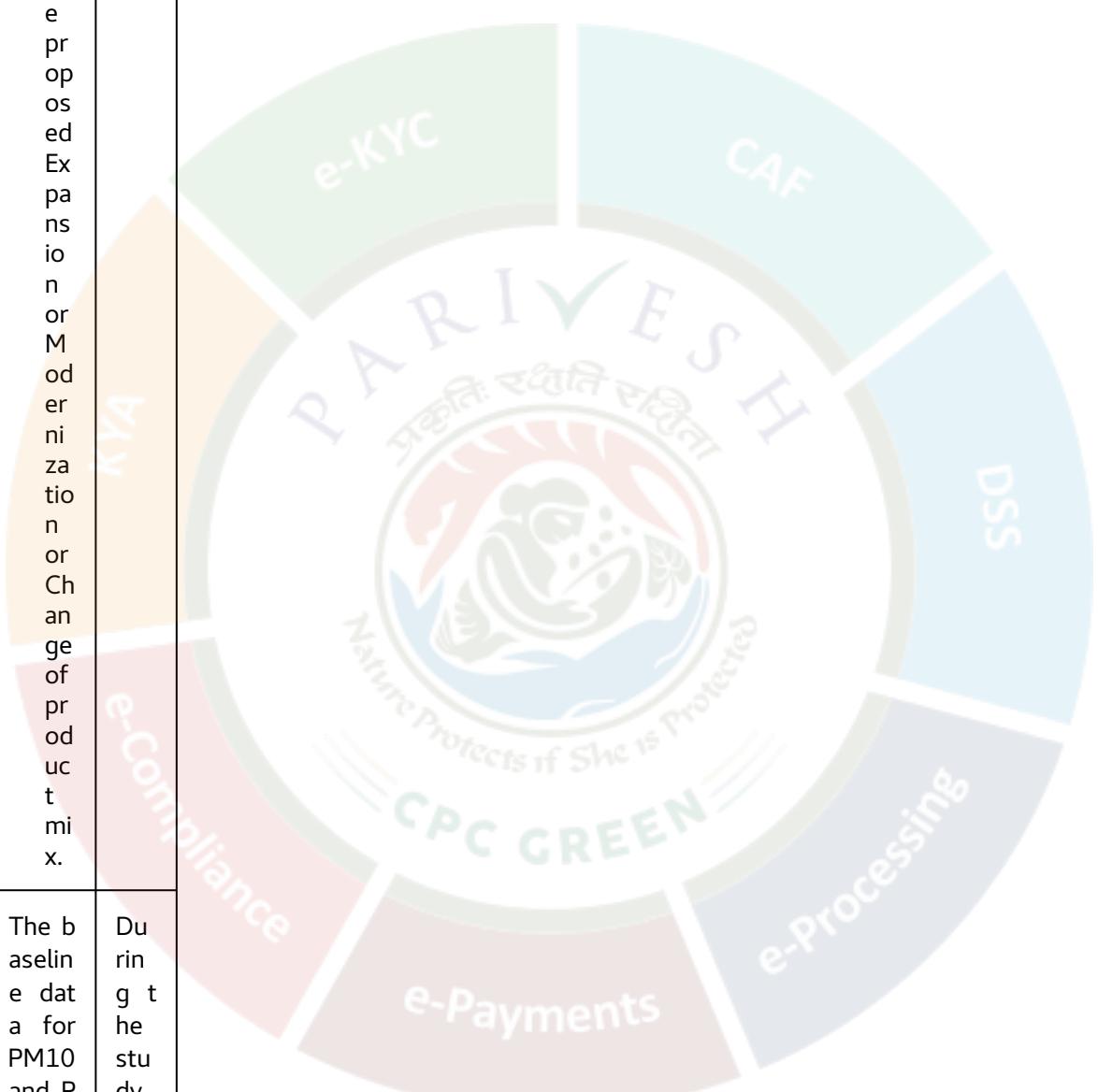
| S. N o. | Queri es | Re pl y |
|---------|--|---------|
| | <p>plant layout visible with layout for which Environmental Clearance was granted.</p> <p>g. Proposed resources requirement (Land/ raw m</p> | |

| S. N o. | Queri es | Re pl y |
|---------|--|---|
| | at eri al s/ w ate r/ po we r) vi s- à- vis wi th gr ante d En vir on men tal Clea ran ce h. Pol lut io n l oa d ca cul ati on s (Ai r/ W ate r/ So lid & ha za |  |

| S. N o. | Queri es | Re pl y |
|---------|---|---------|
| | <p>rd ou s w as t e/ tr aff ic) vi s- à- vis wi th gr an te d En vir on m en tal Cl ea ra n ce AA Q m od ell in g pr ed ict in g m axi m u m Gr ou nd Le ve l C on ce</p> <p>i.</p> <p>AA Q m od ell in g pr ed ict in g m axi m u m Gr ou nd Le ve l C on ce</p> | |



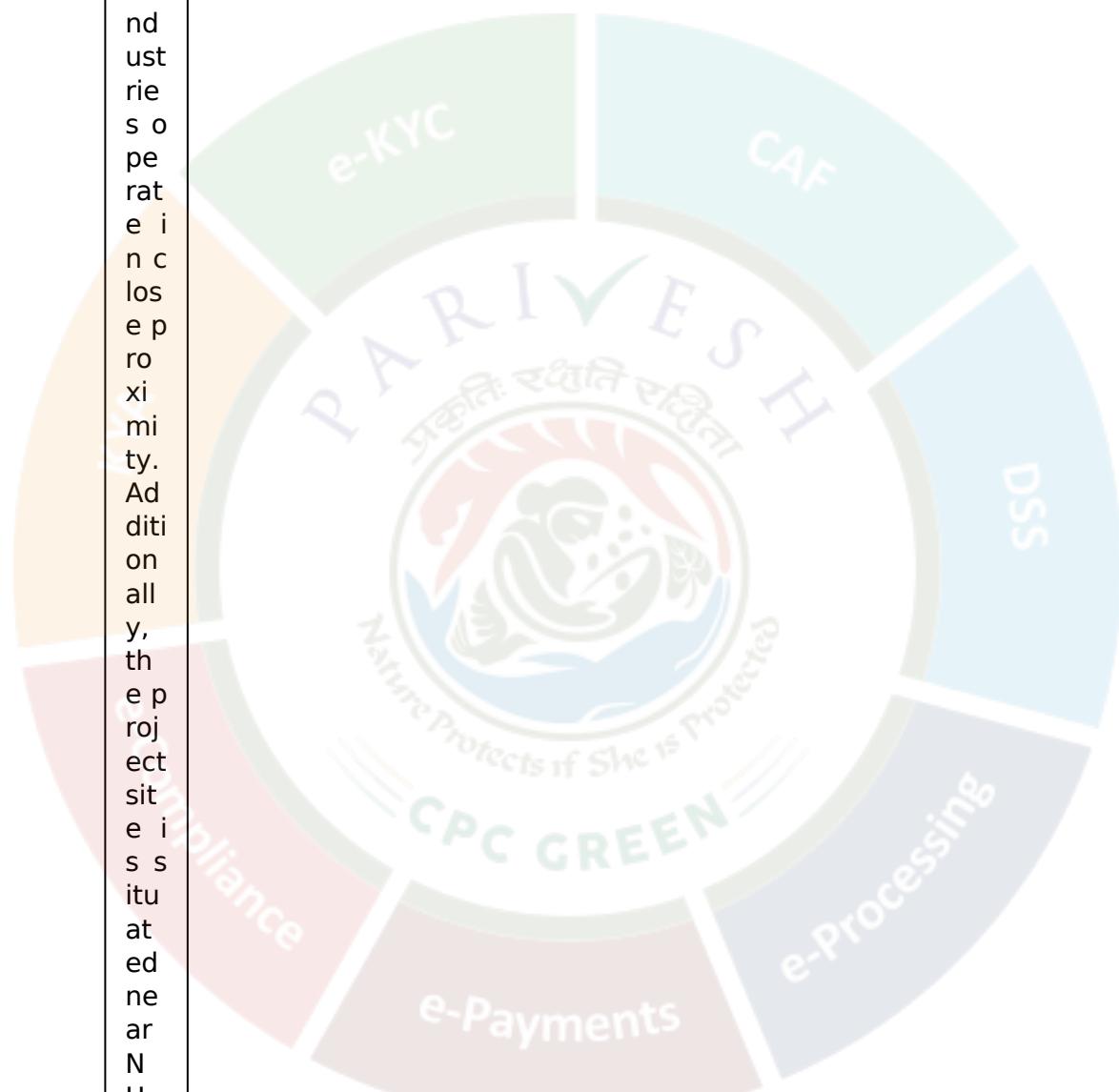
| S. N o. | Queri es | Re pl y |
|---------|---|--|
| | <p>nt ra tio n vi s- à- vis wi th GL C m ax fo r w hi ch En vir on men tal Cl ea ra nc e w as gr an te d j. Risk as se ss m en t wi th mi tig ati on m ea su re s i n</p> | <p>The diagram is a circular graphic divided into six segments, each representing a service offered by PARIYESH. The segments are: e-KYC (green), CAF (light blue), DSS (light blue), e-Processing (grey), e-Payments (pink), and e-Compliance (orange). The center of the circle contains the text 'PARIYESH' in a large, stylized font, with the motto 'प्रकृति संरक्षिति संरक्षिता' (Nature Protects if She is Protected) and 'Nature Protects if She is Protected' in English. The text 'CPC GREEN' is also visible in the center.</p> |

| S. N o. | Queri es | Re pl y |
|---------|---|--|
| | y, re quire d f or th e pro pos ed Ex pa ns io n or M od er ni za tio n or Ch an ge of pr odu ct mi x. |  <p>The diagram is a circular graphic divided into six segments, each representing a service offered by PARIYESH. The segments are: e-KYC (top left, green), CAF (top right, light blue), DSS (middle right, light blue), e-Processing (bottom right, grey), e-Payments (bottom left, pink), and e-Compliance (middle left, orange). The center of the circle features the PARIYESH logo with the text 'परिवेश' (Parivesh) in Devanagari script and 'Nature Protects if She is Protected' in English. The text 'CPC GREEN' is also visible in the center.</p> |
| | The b aselin e dat a for PM10 and P M2.5 durin g bas eline collec tion i s rec orded high. PP sh all su | During the study period, levels of PM ₁₀ and PM _{2.5} . |

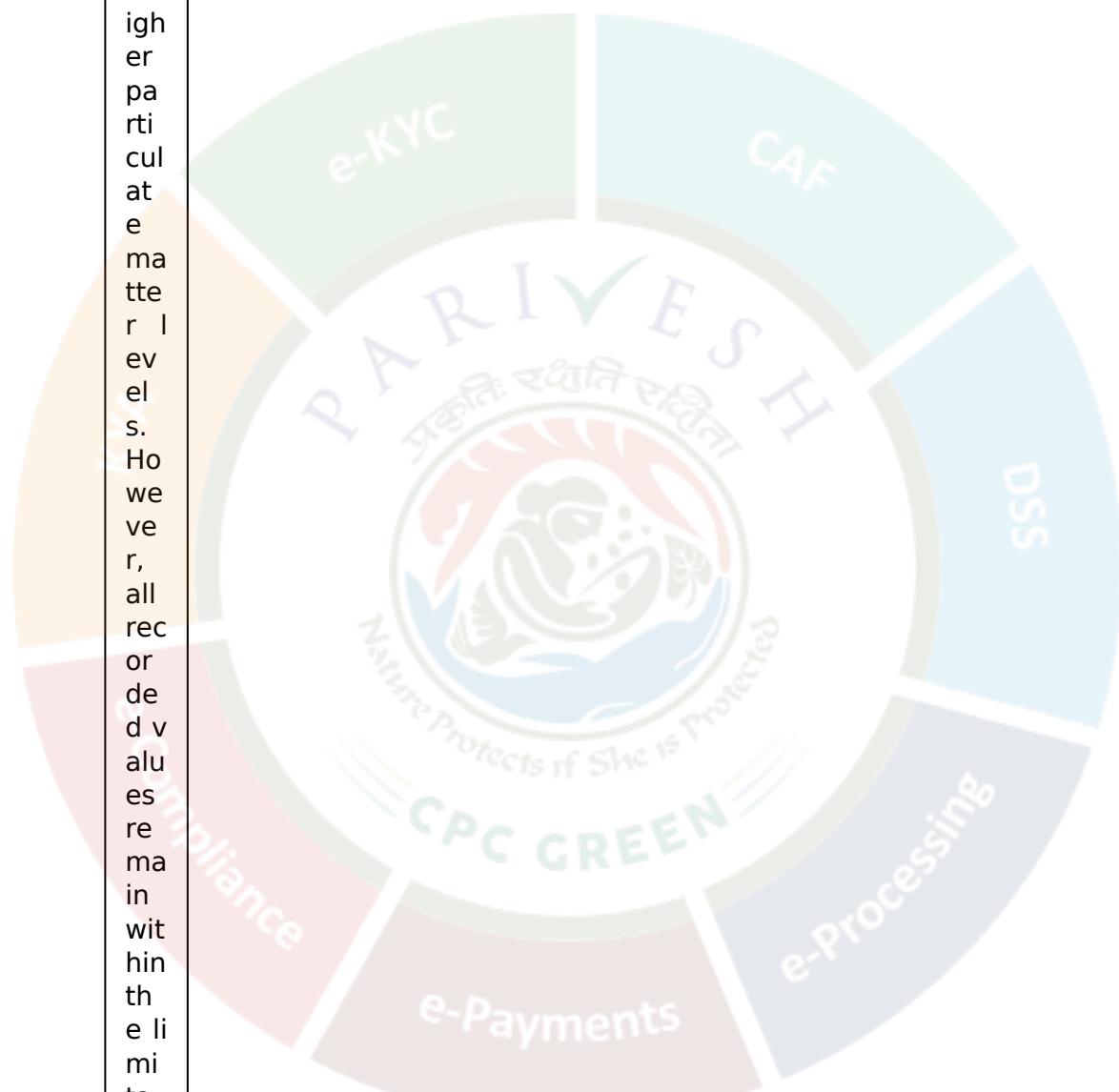
| S. N o. | Queri es | Re pl y |
|---------|---|--|
| | bmit the re asons for th e sam e alo ng wi th th e list of ind ustrie s wit hin th e stu dy ar ea an d miti gatio n me asure s to mini mize the s ame | s w er e o bs er ve d t ow ar ds hig he r si de at th e p roj ect sit e, pri marily be ca us e o ur pr oje ct i s loc at ed wit hin th e Ma ngl ap ur Ind ustrial Ar ea, wh er |



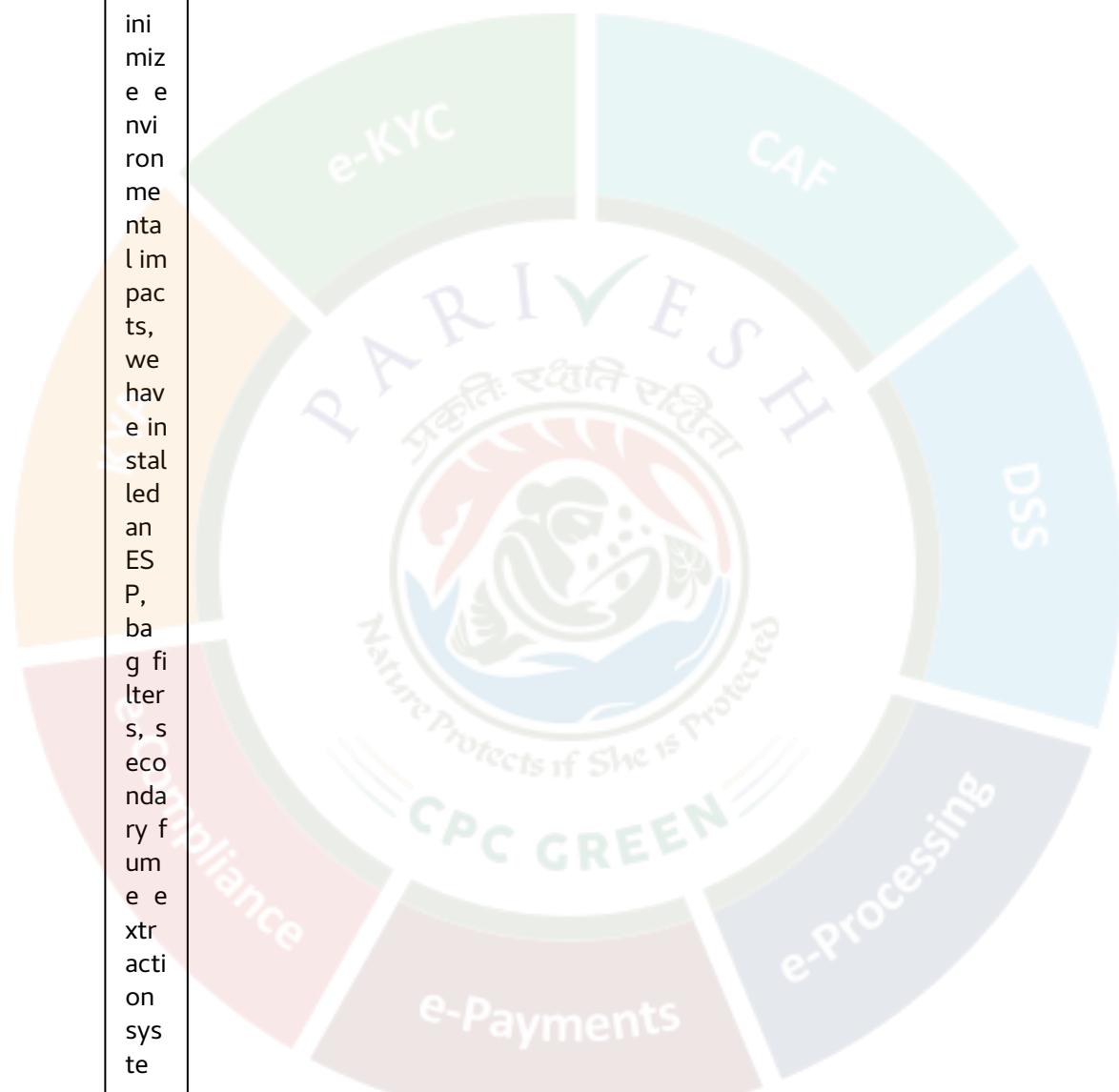
| S. N o. | Queri es | Re pl y |
|---------|----------|--|
| | | e s e v e r a l o t h e r i n d u s t r i e s o p e r a t e i n c l o s e p r o x i m i t y. A d diti on a l l y, th e p r o j e c t s i t e i s s i t u a t e d n e a r N H- 19 (0. 35 km aw a y), wh ich als o c |



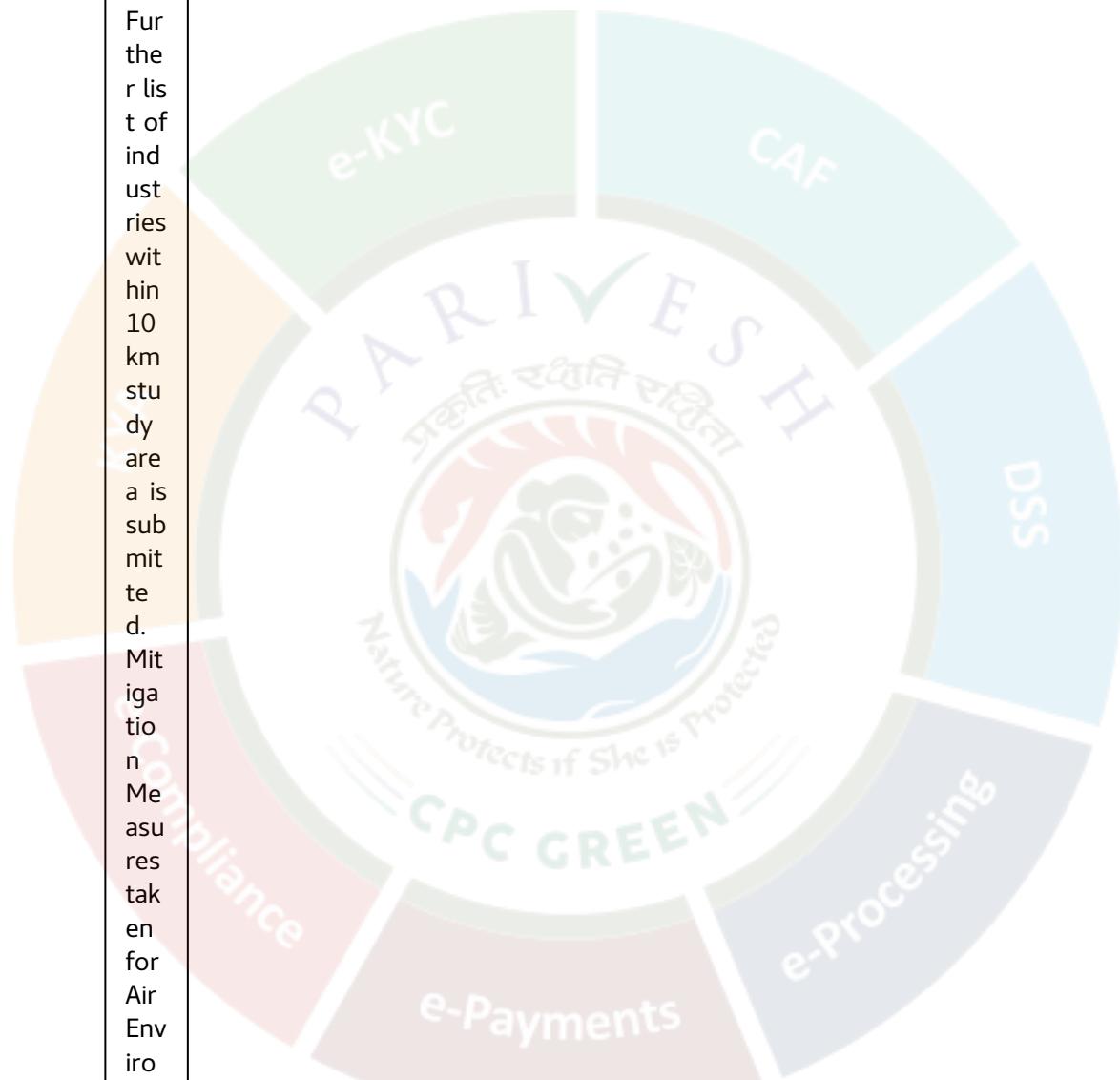
| S. N o. | Queri es | Re pl y |
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| | | <p>on tri bu tes to th e h igh er pa rtic u lat e ma tte r I ev el s. Ho we ve r, all rec or de d v alu es re ma in wit hin th e li mit s pr es cri be d b y CP C B/ Mo E</p> |



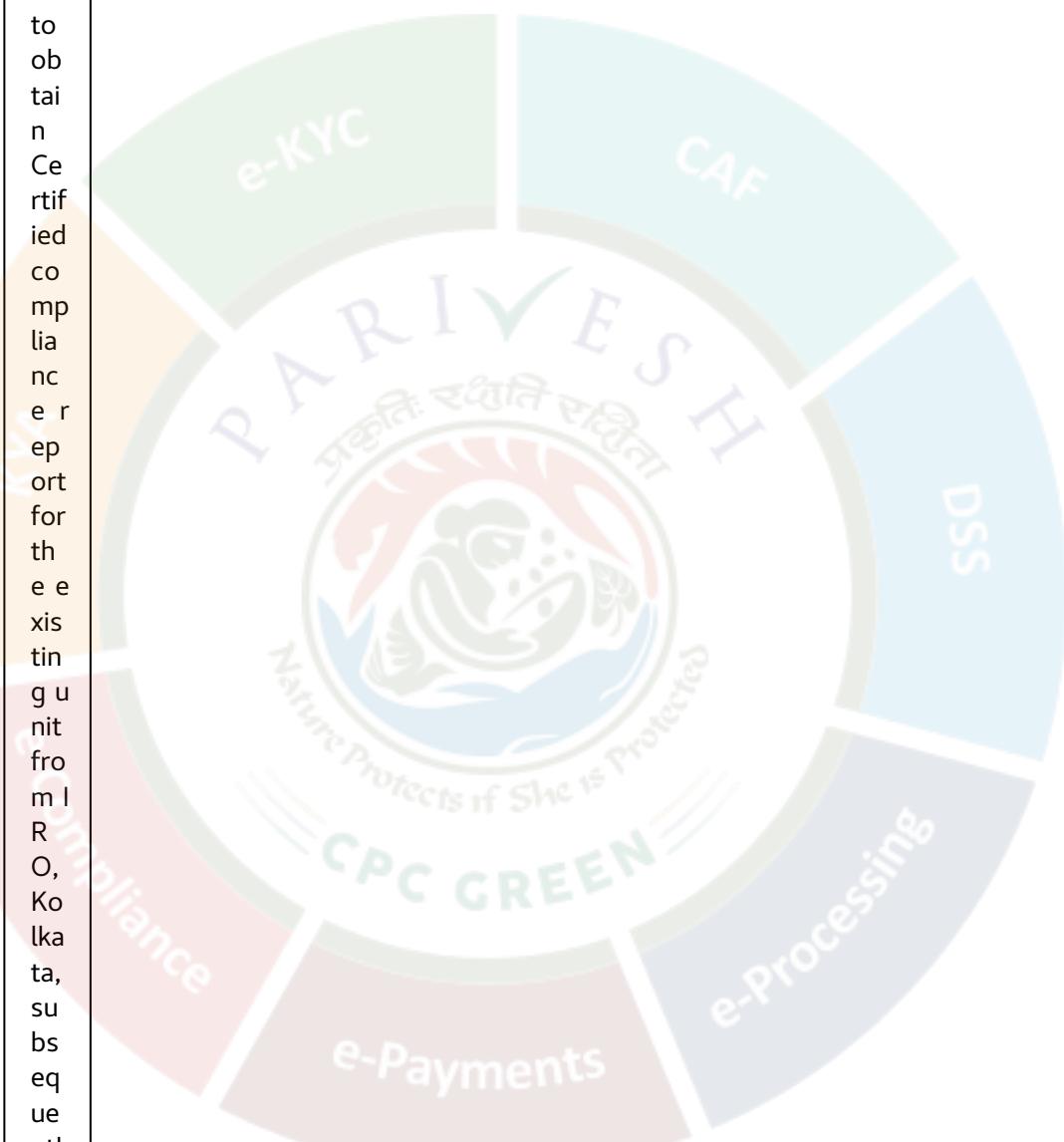
| S. N o. | Queri es | Re pl y |
|---------|----------|--|
| | | <p>F& C C. To fur the r m ini miz e e nvi ron me ntal im pac ts, we hav e in stal led an ES P, ba g fi lter s, s eco nda ry f um e e xtr acti on sys te m, and dev elo pe d t hre e-ti er gre en bel</p> |



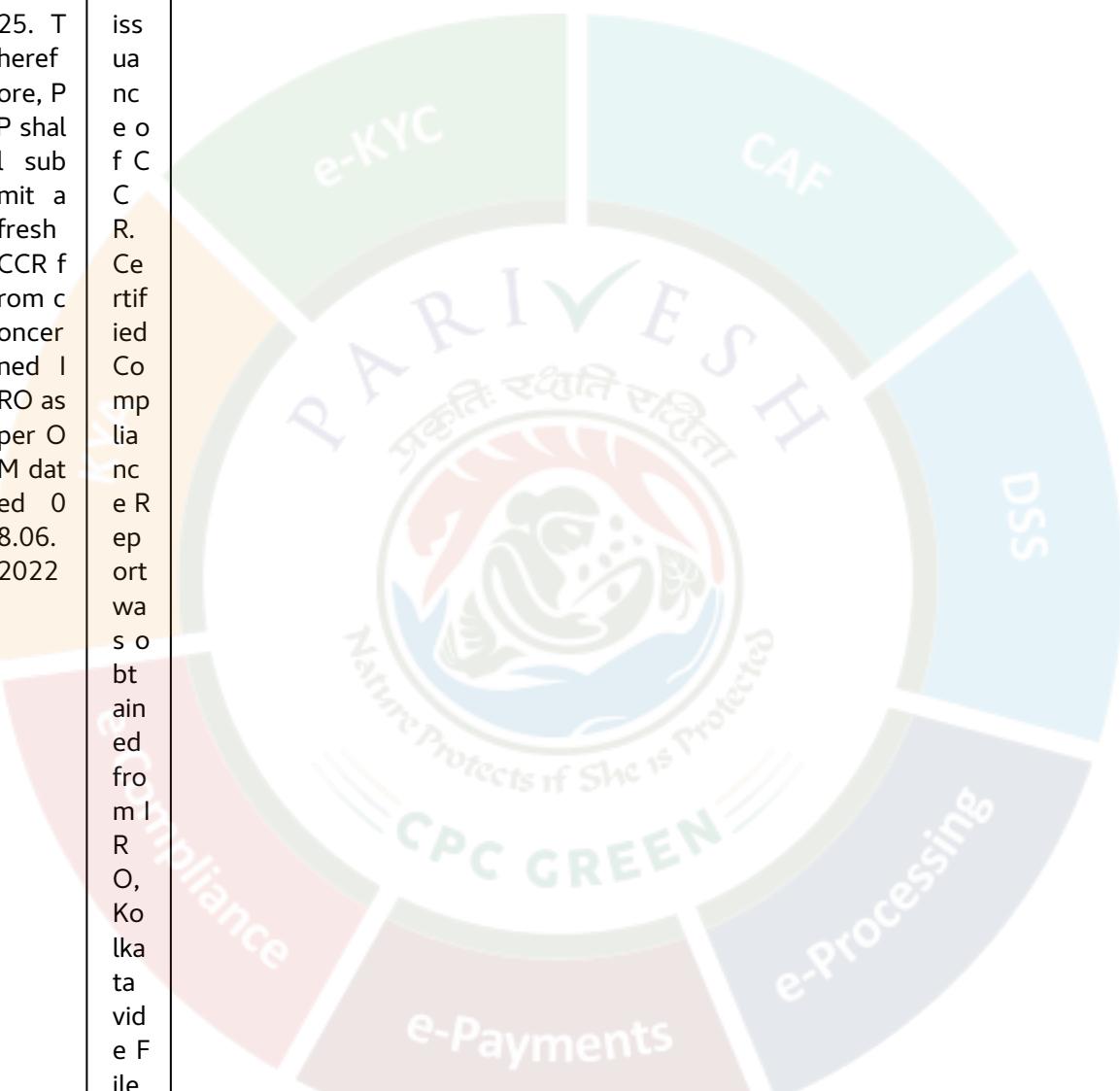
| S. N o. | Queri es | Re pl y |
|---------|---|-------------|
| | <p>t w ithi n p roj ect sit e. Fur the r lis t of ind ust ries wit hin 10 km stu dy are a is sub mit te d. Mit iga tio n Me asu res tak en for Air Env iro nm ent is s ub mit ted .</p> | |
| | The u pload ed Re view | W e h ave s |



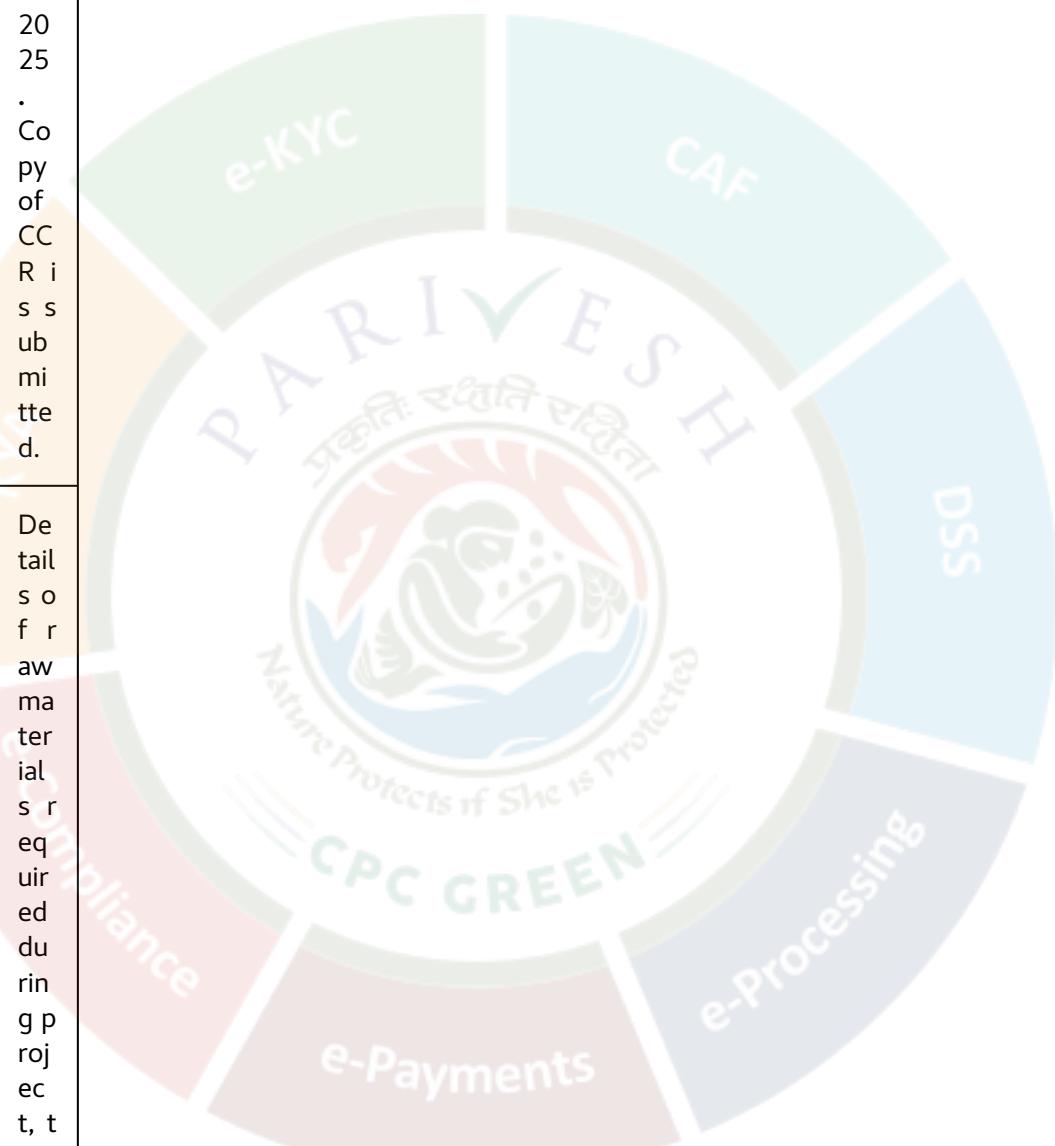
| S. N o. | Queri es | Re pl y |
|---------|---|---|
| | <p>Report is dated 23.03.2024 (site visit on 30.11.2023). As per Ministry's Order dated 08.06.2022, CCR issued by the concerned Authority shall be valid for a period of one year from the date of inspection of the project. It is also noted that there are multiple partial compliances in the</p> | <p>ub mi tte d r eq ue st to ob tai n Ce rtif ied co mp lia nc e r ep ort for th e e xis tin g u nit fro m I R O, Ko lka ta, su bs eq ue ntl y s ite visi t wa s c on du cte d on</p> |



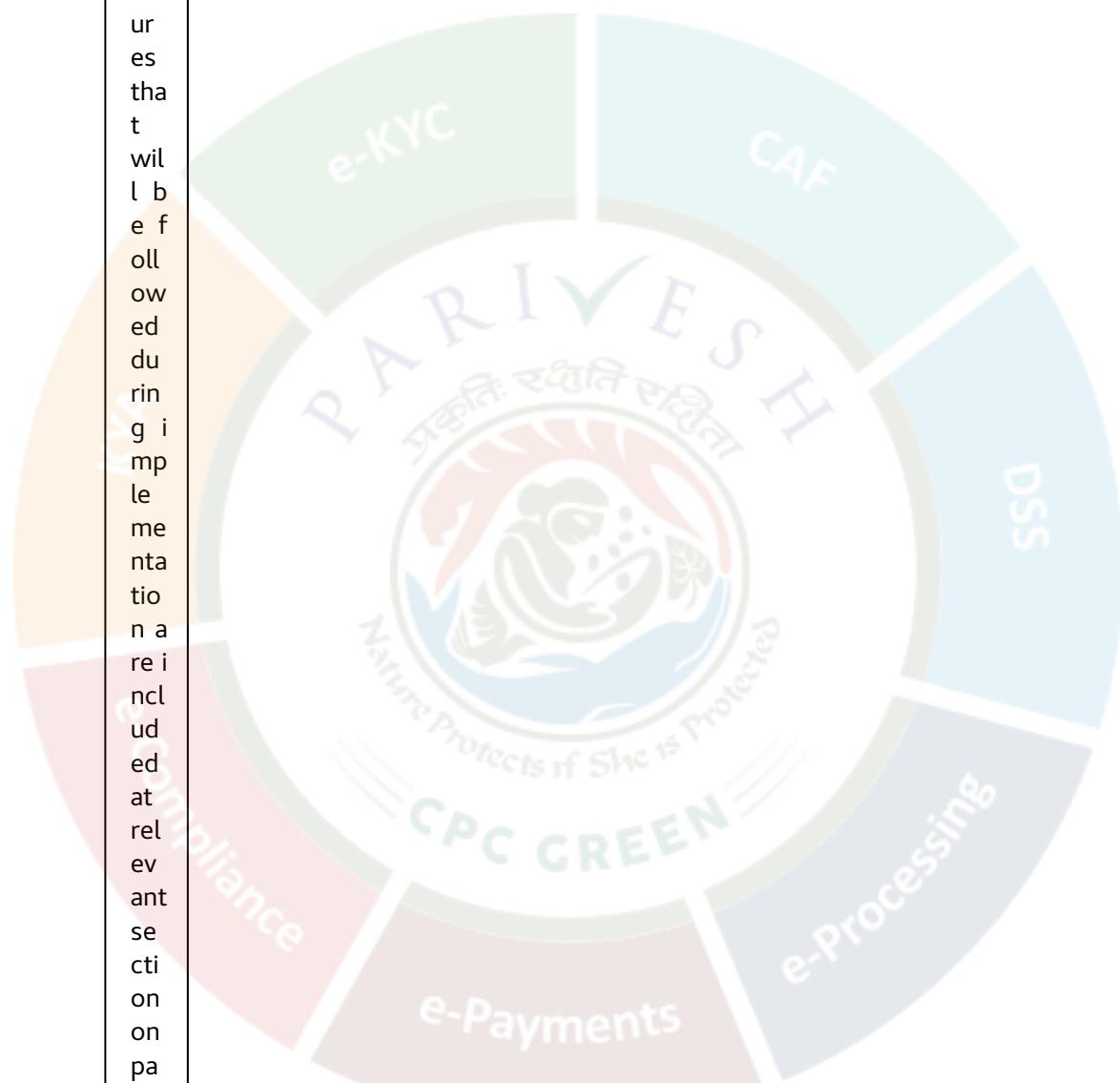
| S. N o. | Queri es | Re pl y |
|---------|---|---|
| | <p>recent Revi ew re port dated 03-0 2-20 25. Theref ore, P P shall sub mit a fresh CCR f rom c oncer ned I RO as per O M dat ed 0 8.06. 2022</p> <p>was ob tain ed fro m I R O, Ko lka ta vid e F ile N o. 10 2- 68 4/ 2 1/ EP E/ 33 5</p> | <p>0 5. 0 8. 20 25 for iss ua nc e o f C C. Ce rtif ied Co mp lia nc e R ep ort wa s o btain ed fro m I R O, Ko lka ta vid e F ile N o. 10 2- 68 4/ 2 1/ EP E/ 33 5</p> |



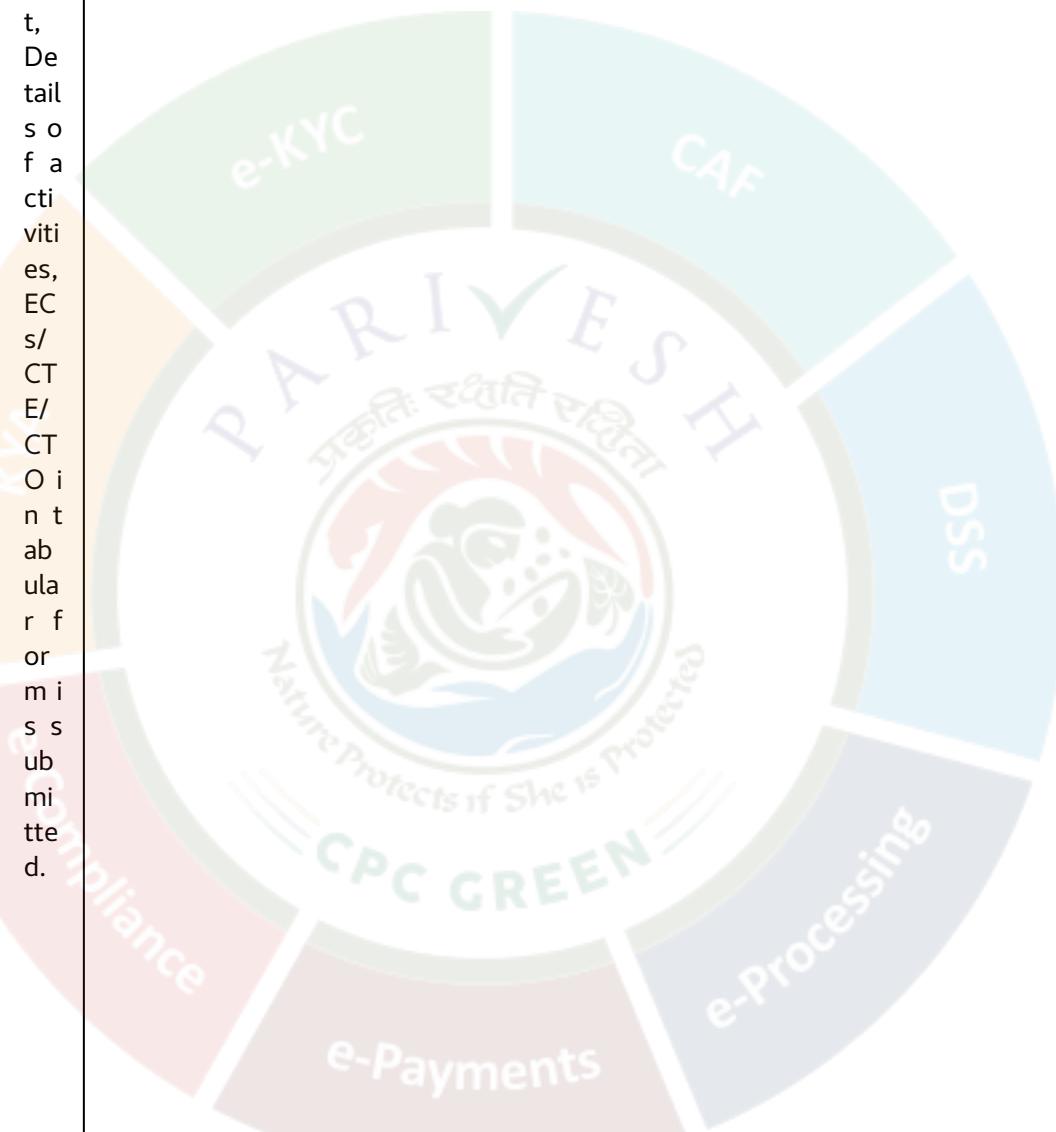
| S. N o. | Queri es | Re pl y |
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| | | da te d 2 1. 1 0. 20 25 . Co py of CC R i s s ub mi tte d. |
| | Details of Raw material and its linkage and its mitigation measure during transportation needs to be submitted under section for requirement of mineral s involved i | De tail s o f raw ma ter ial s r equ ir ed du rin g p roj ec t, t ran sp ort ati on of raw ma ter ial s a |



| S. N o. | Queri es | Re pl y |
|---------|-------------------------------------|---|
| | n the proje ct. | nd mi tig ati on me as ur es tha t wil l b e f oll ow ed du rin g i mp le me ntatio n a re i ncl ud ed at rel ev ant se cti on on pa riv es h p ort al. |
| | PP ne eds t o sub mit t he de tails | W e wo uld lik e t |



| S. N o. | Queri es | Re pl y |
|---------|--|---|
| | of act ivitie s/EC s/CTE s/CT Os in tabul ar for m sh own g its detail s of E Cs/C TEs/C TO vi s-à-vi s pro ducti on ca pacit y sinc e gra nt of CTE/ CTO to ch eck t he vi olatio n, if a ny. Al l old CTEs/ CTO s/ H W Au thoriz ation to be uploa ded t o veri fy the violat ion, if any. | o i nf or m yo u t ha t, De tail s o f a cti viti es, EC s/ CT E/ CT O i n t ab ula r f or m i s s ub mi tte d. |
| | Detail s of l and i | We wo uld |

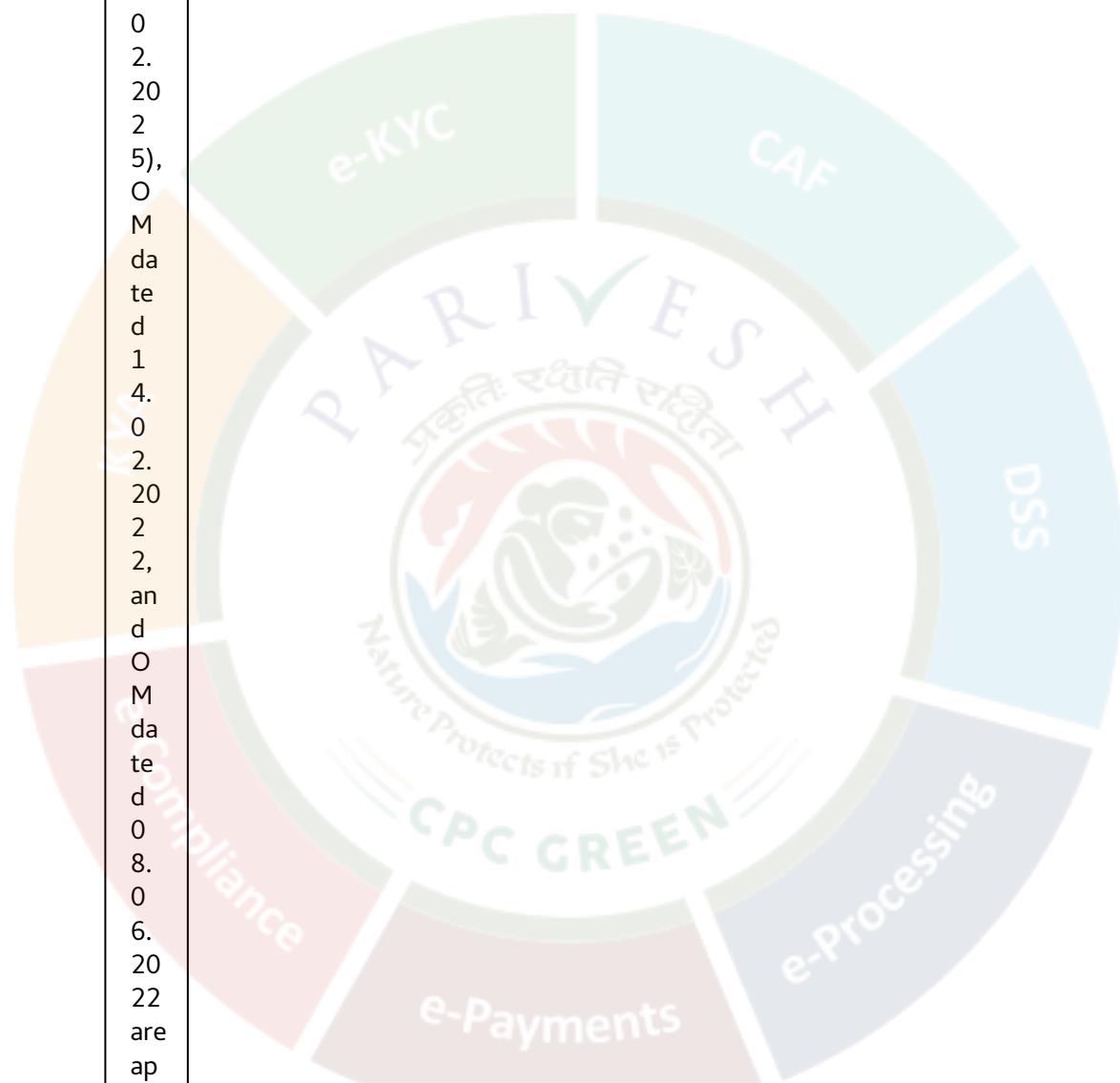


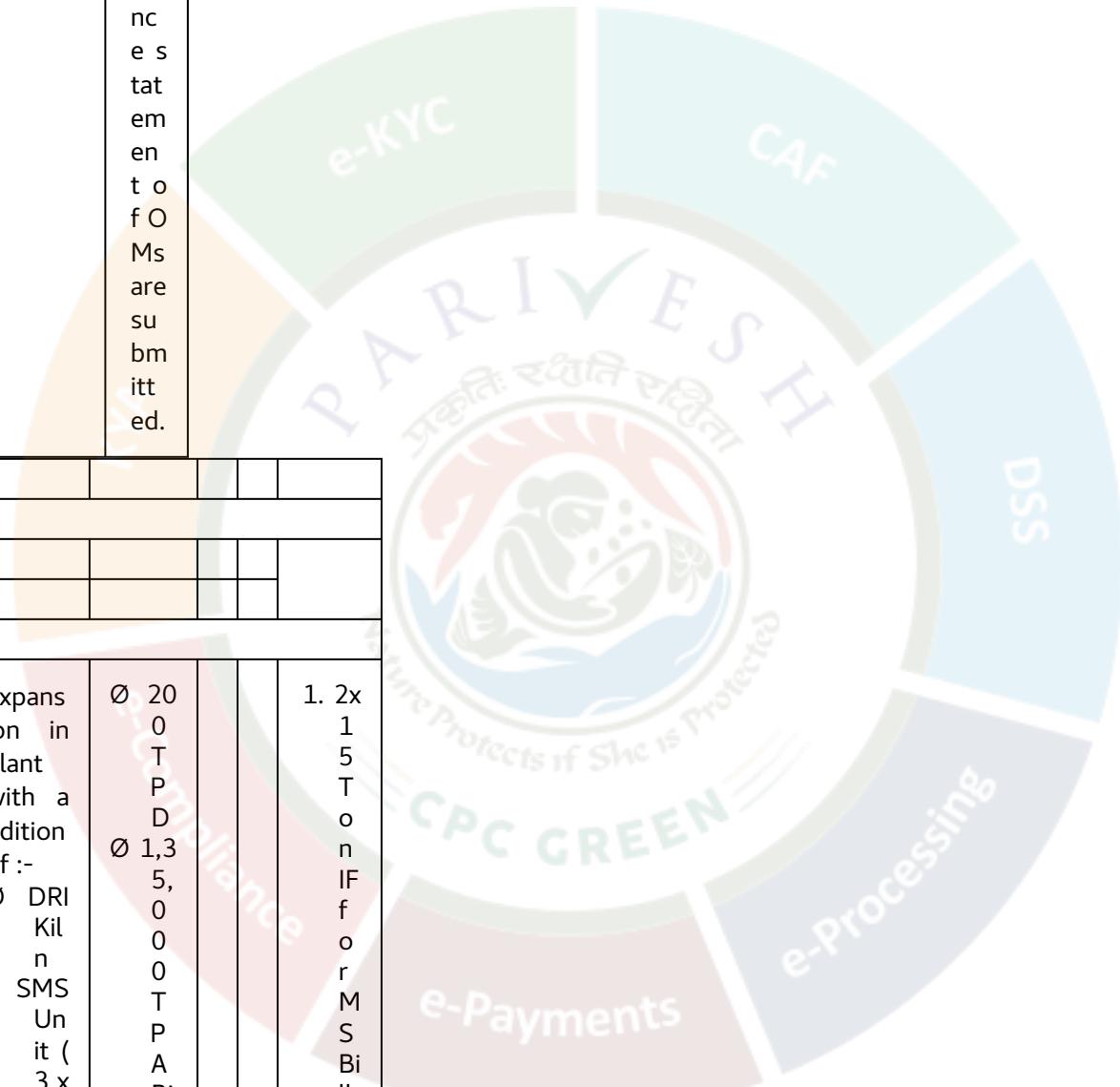
| S. N o. | Quer i es | Re pl y |
|---------|---|--|
| | <p>nvolved in the project [Total area of the land; Type of land; Details of possession of land in the name of PP; Copy of proof of land with area of the land; Conversion of land for industrial purpose from the State Government men t] need to be submitted and uploaded the data accord</p> | <p>like to info rm you that the property is owned by expansion will take place even though it is not being used. There is 30 ha. of land available for industrial purpose from the State Government for the proposed expansion. Land o</p> |

| S. N o. | Queri es | Re pl y |
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| | dingl y. | wn ers hip do cu me nts are sub mit te d. |
| | PP m ay up date t he pr esent ation to inc lude t he co mpla nce t o Std. ToR c onditions | Up da te d p res en tat ion inc lud ing To R Co mpla nce i s u plo ad ed on Par ivesh Po rtal |
| | A co mpla nce st atem ent of OMs applic able t | O M da te d 0 7. 0 |



| S. N o. | Queri es | Re pl y |
|---------|---|---|
| | <p>o the proje ct may also be up loaded</p> <p>2. 20 14 an d 2 0. 0 2. 20 2 5), O M da te d 1 4. 0 2. 20 2 2, an d O M da te d 0 8. 0 6. 20 22 are appli ca ble for ou r a bo ve sai d p roj ec</p> | <p>2. 20 14 an d 2 0. 0 2. 20 2 5), O M da te d 1 4. 0 2. 20 2 2, an d O M da te d 0 8. 0 6. 20 22 are appli ca ble for ou r a bo ve sai d p roj ec</p> |



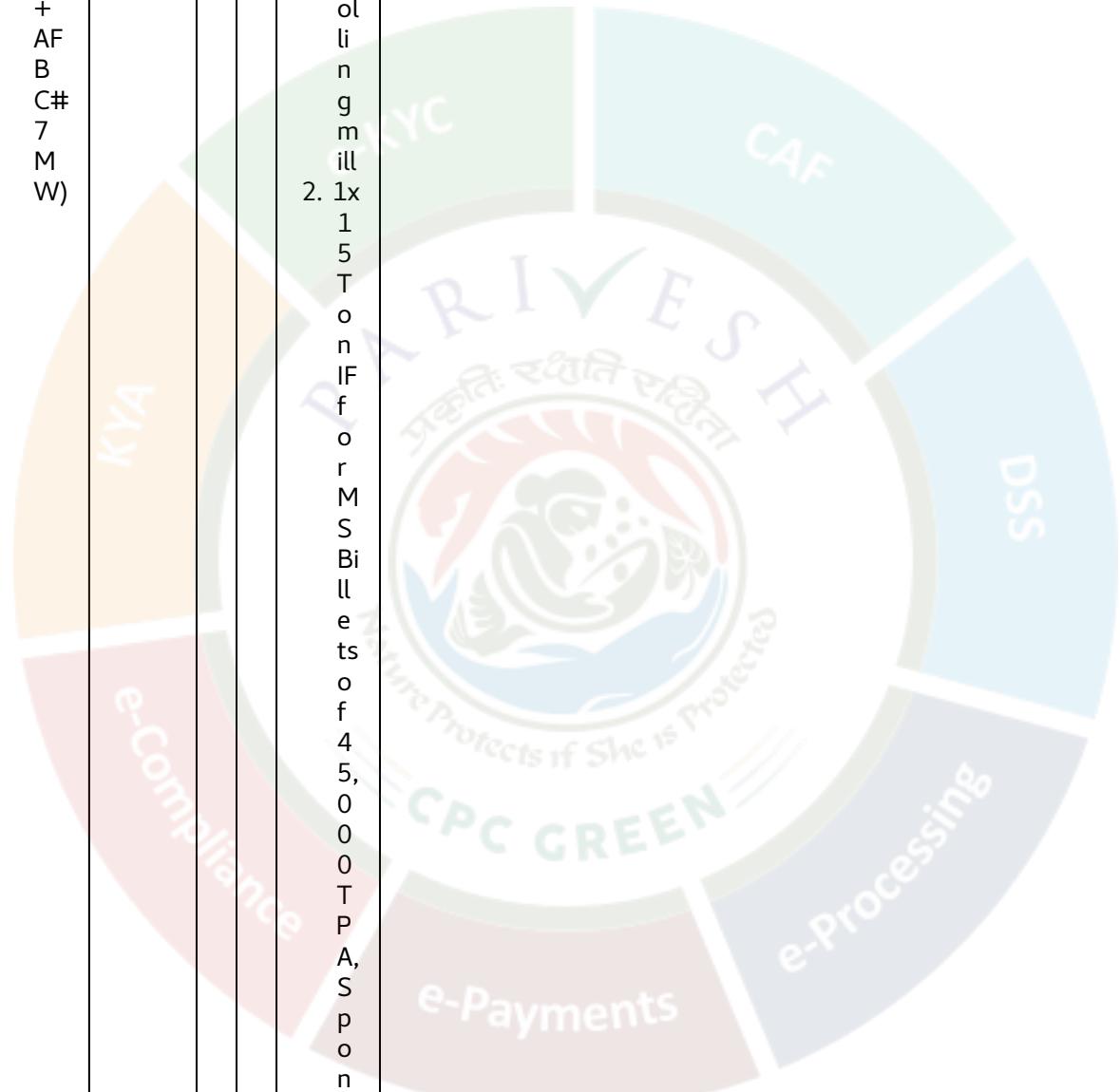


Ø r) Rolling Mill
Ø CPP (W HR B# 8 M W + AF B C# 7 M W)

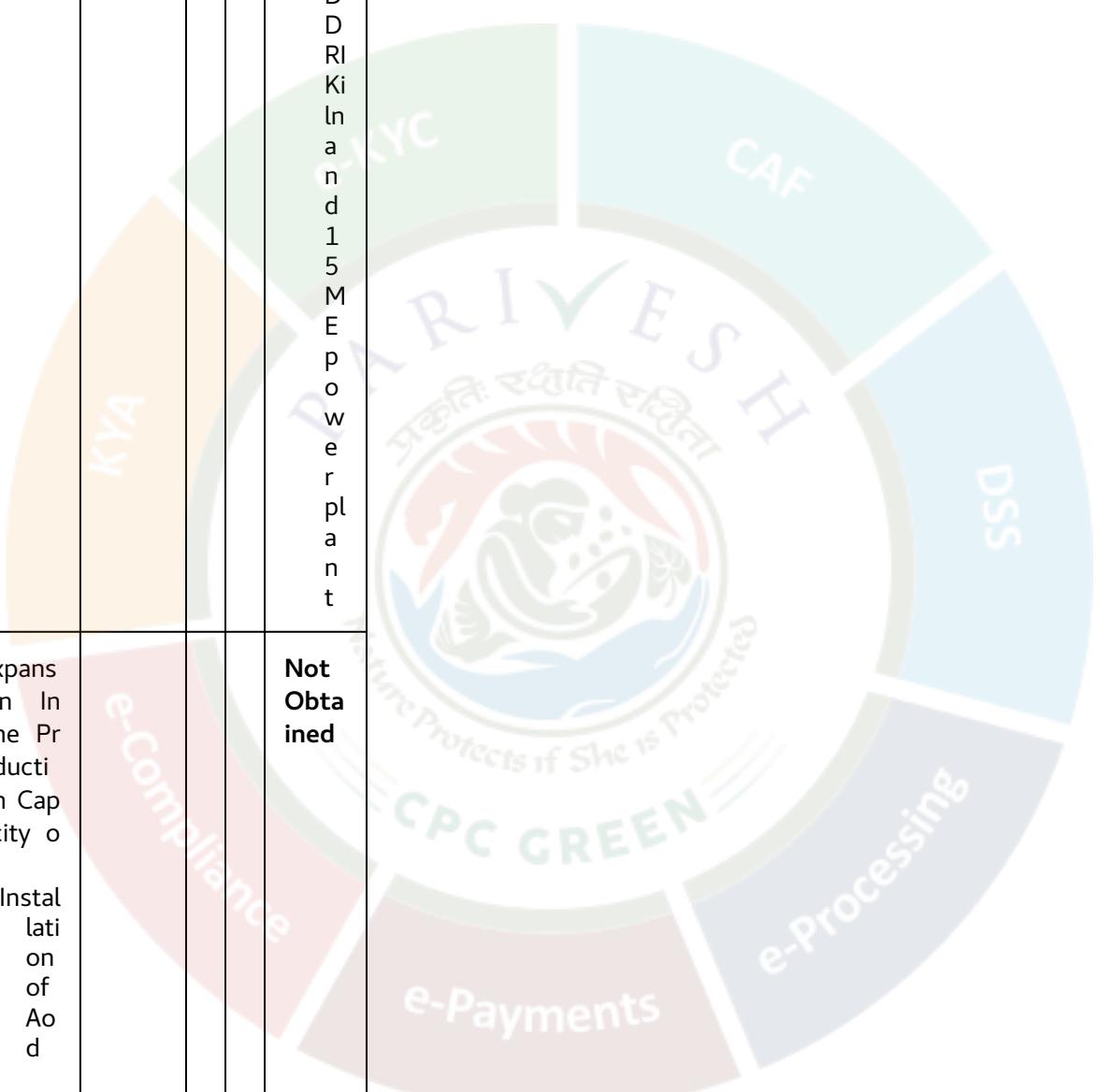
W

with 60,000 TPA, a rolling mill for MS Bills of 45,000 TPA, sponge iron of 60,000

2. 1x 15 Ton IF for MS Bills of 45,000 TPA, a rolling mill for MS Bills of 45,000 TPA, sponge iron of 60,000



| | | | | | |
|--|---|--------------|--|--------------|---|
| | | | | | TPA with 200 TPD DR In and 15 M power plant |
| | Expansion In The Pr oducti on Cap acity o f- Ø Instal lati on of Ao d | e-Compliance | | Not Obtained | |



3.2.3. Deliberations by the committee in previous meetings

N/A

3.2.4. Deliberations by the EAC in current meetings

Deliberations by the Committee

- The Committee deliberated upon the proposal and noted that the project proponent has applied for Phase-II

expansion under the provisions of para 7(ii) of the EIA Notification, 2006, in accordance with the Ministry's O.M. dated 11th April, 2022. The Committee observed that the Phase-I expansion, which was earlier granted EC under para 7(ii) on 10.02.2023, is not yet operational, as the Consent to Operate (CTO) for the said phase is still under process. In this context, the Committee expressed concern that although a Certified Compliance Report (CCR) has been submitted indicating full compliance, such compliance cannot be conclusively assessed when the Phase-I expansion has not been commissioned and operated, as the implementation and effectiveness of EC conditions can only be evaluated after operationalisation through CTO and post-operation monitoring.

ii. The Committee further noted that, as per the Ministry's O.M. dated 11.04.2022, Phase-II expansion proposals can be considered only after successful implementation and operation of Phase-I expansion, duly supported by valid CTO. In view of the above, the Committee was of the opinion that appraisal of the instant Phase-II expansion proposal at this stage is premature. Accordingly, the EAC asked the PP to first obtain CTO, followed by a fresh Certified Compliance Report duly incorporating the operational status of Phase-I expansion.

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

Greenfield Steel Plant - I/O Beneficiation Plant-2.4 MTPA, Pellet Plant-1.8 MTPA, Sponge Iron- 11,88,000 TPA, Hot Billets/Ingots (EAF)-10,29,600 TPA, Rolling Mill-(Strip mill, Structural Mill, TMT mill), PGP-5 x 6500 Nm³/hr, PCI Unit-1 x 5 TPH, SEAFs of 2 x 9 MVA (FeSi/ FeMn/SiMn/FeCr/Pig Iron), Briquetting Plant-200 kg/hr, WHRB-6x18 MW, CFBC-2x50 MW, Fly Ash Brick-1,00,000 Bricks/Day by Pera Mining Industries LLP located at BALOD, CHHATTISGARH

| Proposal For | | Fresh ToR | |
|--|----------------------------------|-----------------|--|
| Proposal No | File No | Submission Date | Activity Sub-Activity (Schedule Item) |
| IA/CG/IND1/554750/2025 | IA-J-11011/386/2025-IA-II(Ind-I) | 27/10/2025 | Metallurgical Industries (ferrous and non ferrous) Primary Metallurgical Industry - All Projects (3(a)) |

3.3.2. Project Salient Features

[Proposal no.: IA/CG/IND1/554750/2025: File No. IA-J-11011/386/2025-IA-II (IND-I)]
[Consultant: Pioneer Enviro Consultants Private Limited; Valid upto: 09.09.2029]

3.3.3. Deliberations by the committee in previous meetings

Date of EAC 1 : 14/11/2025

Deliberations of EAC 1 :

3.3.4. Deliberations by the EAC in current meetings

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3.3.5. Recommendation of EAC

| |
|--------------------------|
| Returned in present form |
|--------------------------|

3.4. Agenda Item No 4:

3.4.1. Details of the proposal

| | | | |
|---|----------------------------------|-----------------|--|
| Increasing of production capacity of Axles from 75,000 axles/annum (36,750 Tonnes) to 1,65,000 axles/annum (80,850 Tonnes) & Existing capacity of Wheel shop of 2,00,000 no's/annum (97,000 Tonnes) by Rail Wheel Factory located at BENGALURU URBAN,KARNATAKA | | | |
| Proposal For | | | Amendment in EC |
| Proposal No | File No | Submission Date | Activity Sub-Activity (Schedule Item) |
| <u>IA/KA/IND1/564617/2026</u> | IA-J-11011/130/2022-IA-II(IND-I) | 07/01/2026 | Metallurgical Industries (ferrous and non ferrous) Secondary Metallurgical Industry involving of melting of non-toxic metals using Solid / Liquid Fuel in the furnace (3(a)) |

3.4.2. Project Salient Features

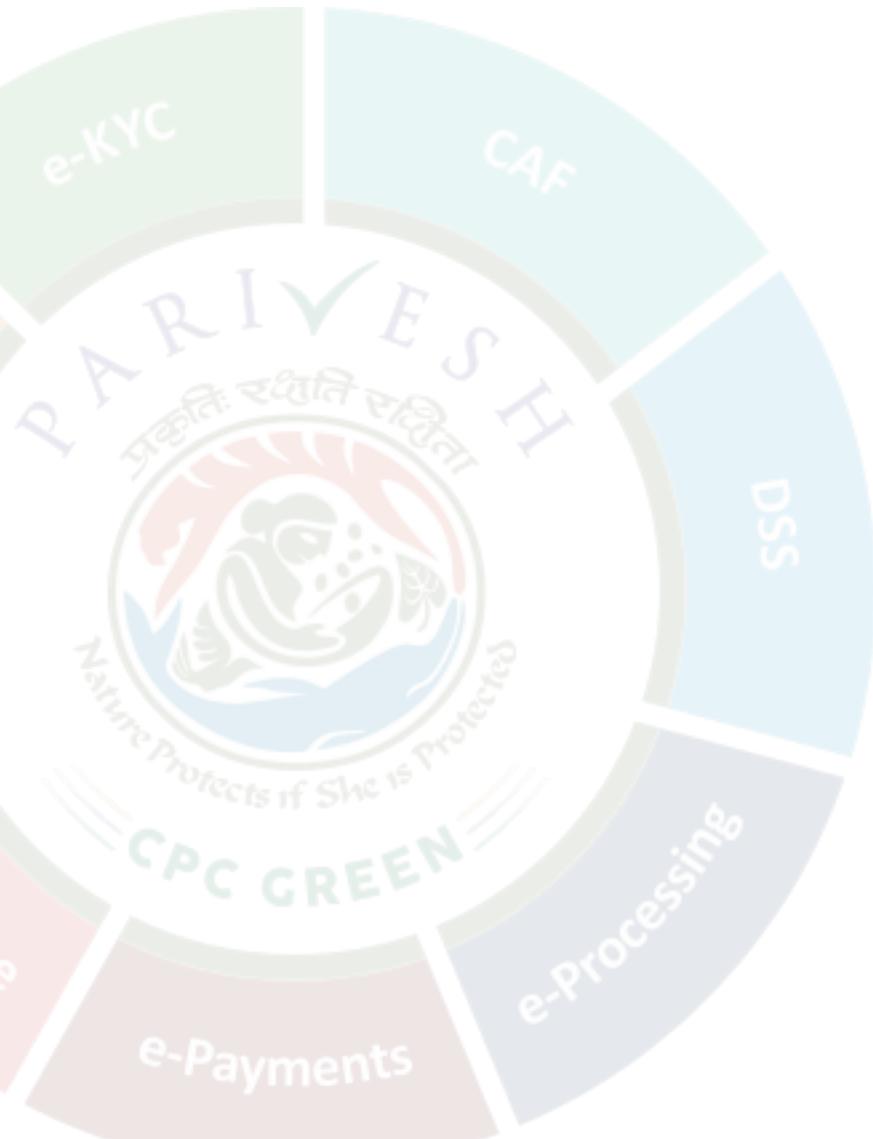
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| [Proposal no.: IA/KA/IND1/564617/2026: File No. IA-J-11011/130/2022-IA-II (IND-I)] [Consultant: AM Enviro Engineers, Bangalore; Valid upto: 06.06.2028] |
|--|

| S. No. | Parao of ECF & CCC | Details as per the EC | To be revised/read as | Justification/reasons |
|--------|---|--|--|---|
| | Subject: Increasing of production capacity of Axles from 75,000 axles/s/annum (36, (3 | Increase in production capacity of Axles from 75,000 axles/s/annum (36, (3 | Increase in production capacity of Axles from 75,000 axles/s/annum (36, (3 | The amendment is proposed to e-Payments |

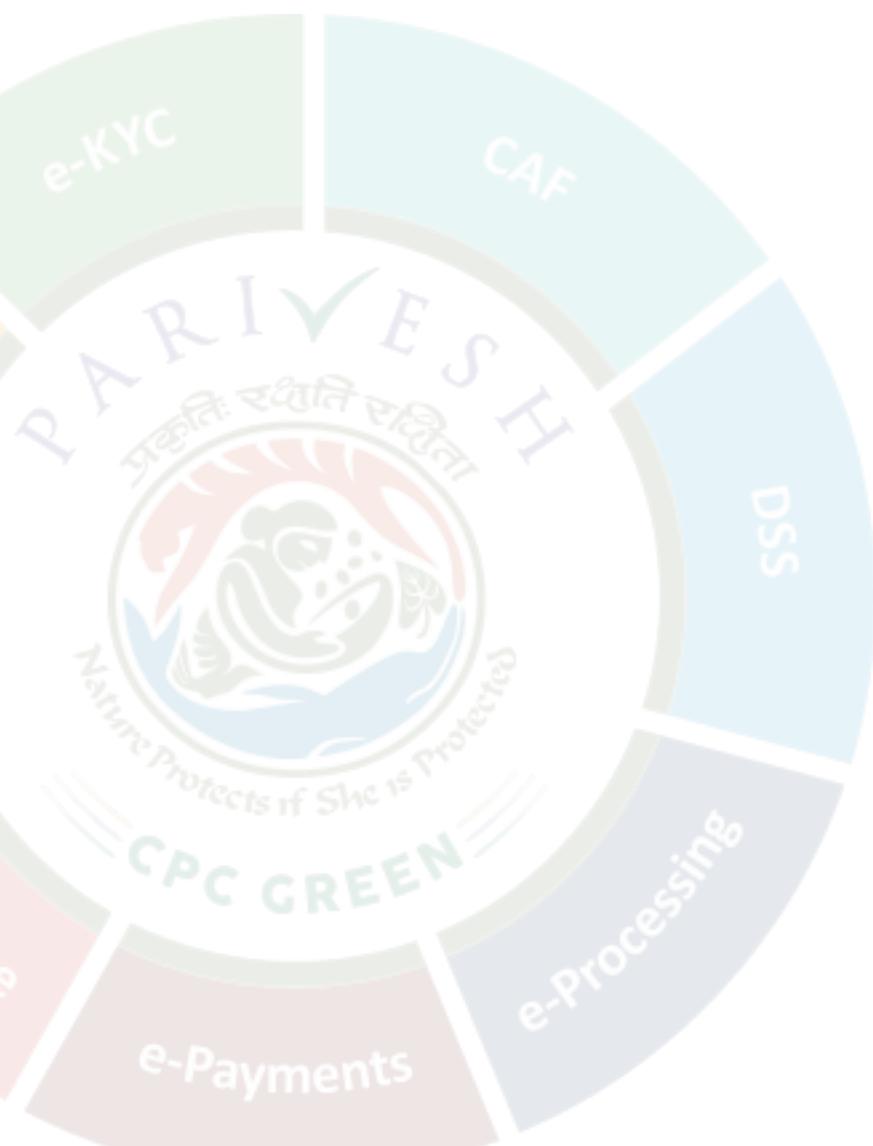


| S. No. | Parao of EEC is issued by MoEF & CEC | Details as per the EC | To be revised/read as | Justification/reasons |
|--------|---|---|--|--|
| | 750 Tonnes) to 1,65,000 axles/s/annum (80,850 Tonnes) & Existing capacity | 6,750 Tonnes) to 1,66,500 axles/s/annum (80,850 Tonnes) & Existing capacity | ve d wh e el pr o d u ct io n ca p ac it y in to n es per a n n u m (TP) | e-KYC CAF DSS e-Processing e-Payments CPC GREEN |

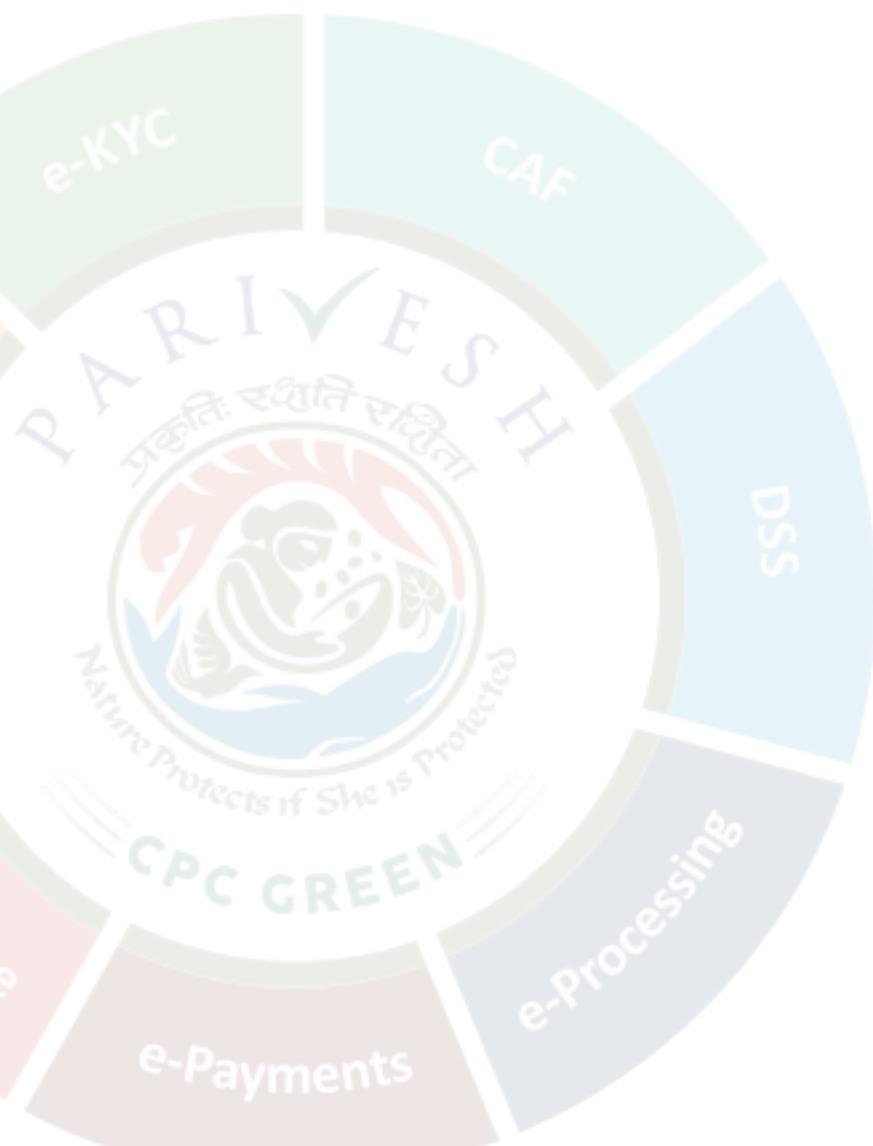
| S. l. N. o. | P a r a o f E C is s u e d b y M o E F & C C | D e t a i l s a s p e r t h e E C | To be re vi se d/ re ad as | J u st ifi c at io n/ re as o n s |
|-------------|--|---|---|---|
| | | cit y of W he el sh op of 2, 0 0, 00 0 n o' s/ an nu m (9 7, 00 0 To nn e s) by M/ s Ra | ca pa cit y of W he el sh op of 9 7, 00 0 To nn es by M/ s. Ra il W he el Fa ct or y, lo ca | A) in st e a d of sh op of 9 7, 00 0 To nn es, as w h e el s, as w h e el Fa ct or y, lo ca |



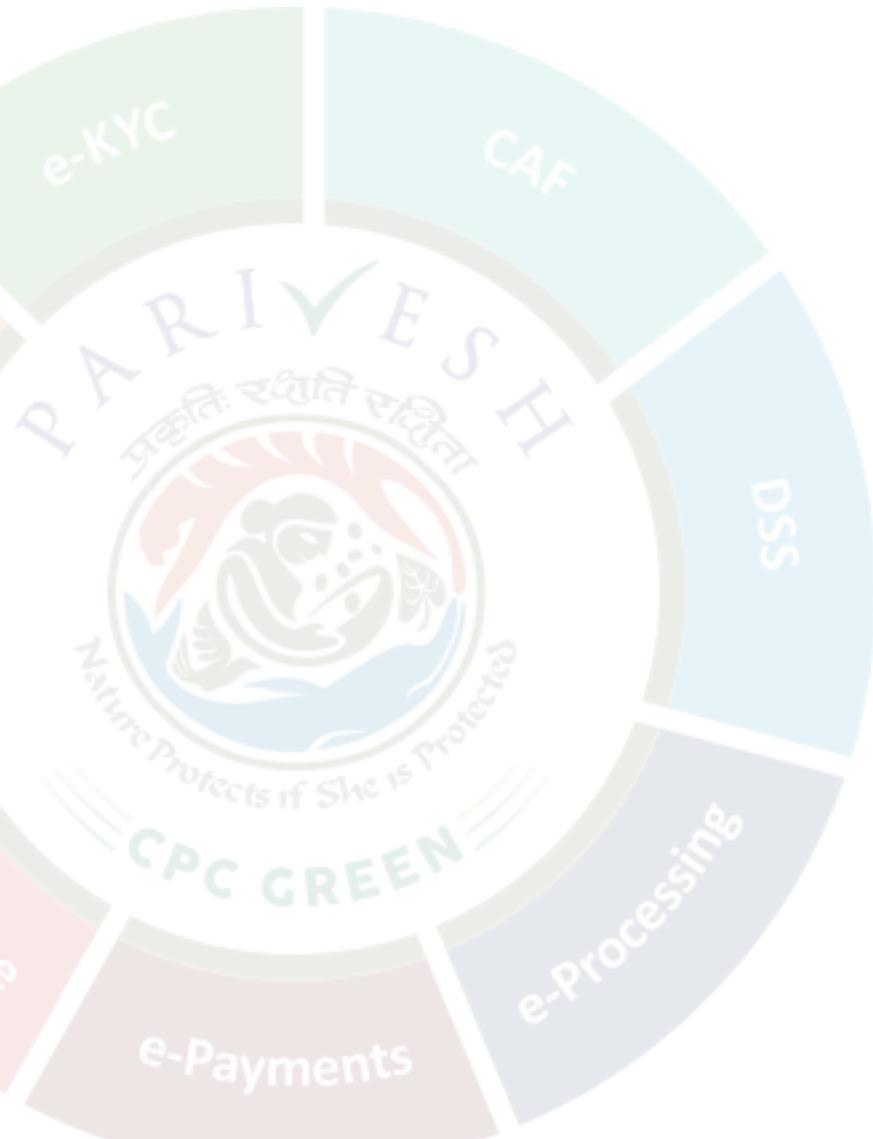
| S. No. | Parao of ECF & CCC | Details as per the EC | To be revised/read as | Justification/reasons |
|--------|---|--|---|-----------------------|
| | il Whe el Fa ct or y, l oc at ed at Pu tte na hal li Vil la ge & Ye lah an ka Vil la g e, D od | te d at Pu tt en ah all i V ill ag e & Ye la ha nk a Vil la g e, D od | nd u ni t w ei g ht va ry b as e d o n pr o d u ct s p e ci fi ca ti o n s. | |



| S. No. | Parao of ECF & CCC | Details as per the EC | To be revised/read as | Justification/reasons |
|--------|--------------------|---|---|--|
| | | da ba lla pu r R oa d, Ye lah an ka H ob li, Be ng alu ru N or th Ta lu k, Be ng alu ru Di str ic t, | Ye la ha nk a H ob li, Be ng al ur u N or th Ta lu k, Be ng alu ru Di str ic t, Ka rn at ak | This c h a n g e w ill pr o vi d e o p er at io n al ur u Di str ic t, Ka rn at ak |



| S. L. N. o. | P a r a o f E C is s u e d b y M o E F & C C | D e t a i l s a s p e r t h e E C | T o b e r e v i s e d/ r e a d a s | J u s t i f i c a t i o n/ r e a s o n s |
|-------------|--|---|---|---|
| | | Ka rn at ak a | a | n s u r i n g th |
| | P a r a 2 o f E C is s u e d b y M o E F & C C | N a m e o f t h e P r o j e c t: In cr ea sin g of pr od uc tio n ca pa cit y of Ax | N a m e o f t h e P r o j e c t: In cr ea sin g of pr od uc tio n ca pa cit y of Ax | at th er e is n o in cre ase in a p pr ove d ca pac it y, n o |



| S. l. N. o. | P a r a o f E C is s u e d b y M o E F & C C | D e t a i l s a s p e r t h e E C | To be re vi se d/ re ad as | J u st ifi c at io n/ re as o n s |
|-------------|--|--|--|--|
| | | les fro m 7 5, 00 0 axl e s/ an nu m (3 6, 75 0 To nn e s) to 1, 6 5, 00 0 axl e s/ an nu | Ax le s f ro m 7 5, 05, 00 0 ax 0 s/ an le s/ m (3 6, 75 0 To nn e s) to 1, 6 5, 00 0 ax 0 s/ an le s/ | c h a n g e in pr o c es s, a n d n o a d di ti o n al e n vi r o n m e nt |



| S.l. N.o. | P a r a o f E C is s u e d b y M o E F & C C | De tai ls as pe r t he EC | To be re vi se d/ re ad as | J u st ifi c at io n/ re as o n s |
|--------------|---|--|---|---|
| | | m (8 0, 85 0 To nn e s) & Exi sti ng ca pa cit y of W he el sh op of 2, 0 0, 00 0 n o' s/ | m (8 0, 85 0, To nn e s) & Exi sti ng ca pa cit y of W he el sh op of 2, 0 0, 00 0 n o' s/ | an nu m (8 0, 85 0, To nn e s) & Exi sti ng ca pa cit y of W he el sh op of 2, 0 0, 00 0 n o' s/ |



| S. L. N. o. | P a r a o f E C is s u e d b y M o E F & C C | D e t a i l s a s p e r t h e E C | To b e r e v i s e d/ r e a d a s | J u s t i f i c a t i o n/ r e a s o n s |
|-------------|--|---|---|---|
| | | annum (97,000 Tonnes) | nn es | prescribe d under the existing E nvironmental Cl earanc e |
| | para 6i o f E C is s u e d b y M o E F & | The ins tant pr ojec t is f or inc re asi ng th e pr oduc | The ins tant pr ojec t is f or inc re asi ng th e pr oduc | The ins tant pr ojec t is f or inc re asi ng th e pr oduc |



| S. L. N. o. | P a r i o f E C is s u e d b y M o E F & C C | D e t a i l s a s p e r t h e E C | T o b e r e v i s e d/ r e a d a s | J u s t i f i c a t i o n/ r e a s o n s |
|-------------|--|--|---|--|
| | C C | tion ca pa cit y of Ax les sh op fro m 7 5, 00 0 no' s/ an nu m (3 6, 75 0 TP A) to 1, 6 5, | uc tio n ca pa cit y of Ax le ss ho p f ro m 7 5, 00 0 0 n o' s/ an nu m (3 6, 75 0 TP A) to 1, TP A) to | e. |



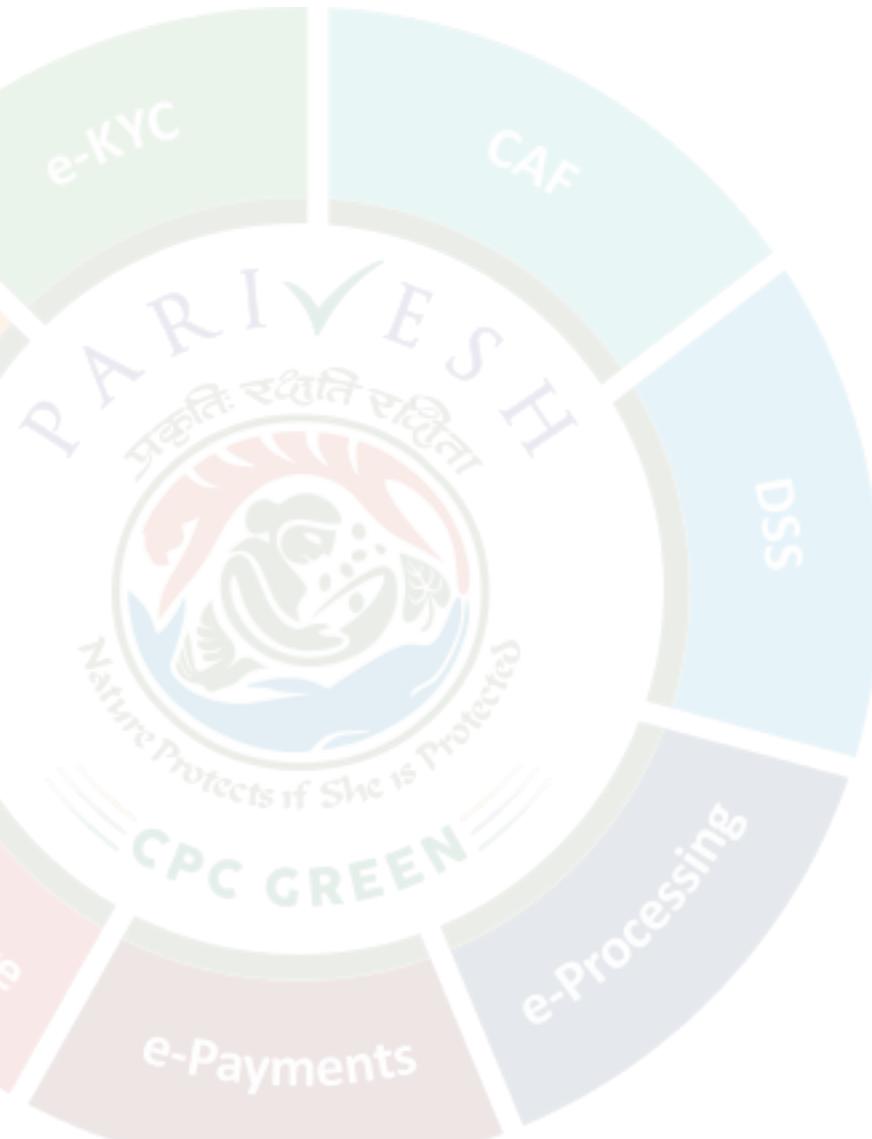
| S. l. N. o. | P a r a o f E C is s u e d b y M o E F & C C | D e t a i l s a s p e r t h e E C | To be r e v i s e d/ r e a d a s | J u s t i f i c a t i o n/ r e a s o n s |
|-------------|--|---|---|--|
| | | 00 0 no' s/ an nu m (8 0, 85 0 TP A) & Exi sti ng ca pa cit y of W he el Sh op of 2, 0 0, 00 | 1, 6 5, 00 0 n o' s/ an nu m (8 0, 85 0 TP A) & Exi sti ng ca pa cit y of W he el Sh op | |



| S. L. N. o. | P a r a o f E C is s u e d b y M o E F & C C | D e t a i l s a s p e r t h e E C | T o b e r e v i s e d/ r e a d a s | J u s t i f i c a t i o n/ r e a s o n s |
|-------------|--|---|--|--|
| | | 0 n o' s/ an nu m (9 7, 00 0 T P A). | of 9 7, 00 0 T P A. | |
| | P a r a g i i o f E C is s u e d b y M o | M/ s Ra il w he el fa ct or y wa s e st ab lis he d i | M/ s Ra il w he el fa ct or y w as es ta bli sh ed | |



| S. L. N. o. | P a r a o f E C is s u e d b y M o E F & C C | D e t a i l s a s p e r t h e E C | To be re vi se d/ re ad as | J u st i fi c at io n/ re as o n s |
|-------------|--|---|---|------------------------------------|
| | E F & C C | n t he ye ar 19 84 en ga ge d i n m an uf ac tur in g of Ra il W he els - 2, 0 0, 00 0 n o' | in th e ye ar 19 84 en ga ge d i n m an uf ac tur in g of Ra il W he els - 2, 9 7, 00 0 To nn | |



| S.l. N.o. | P a r a o f E C is s u e d b y M o E F & C C | De ta ils as pe r t he EC | To be re vi se d/ re ad as | J u st ifi c at io n/ re as o n s |
|--------------|---|---|---|---|
| | | s/ an nu m (9 7, 00 0 To nn e s) an d Ax les - 7 5, 00 0 no' s/ an nu m (3 6, 75 0 To nn | es an d Ax le s - 7 5, 00 0 n o' s/ an nu m (3 6, 75 0 To nn | |

| S.l. N.o. | P a r a o f E C is s u e d b y M o E F & C C | P a r a o f E C is s u e d b y M o E F & C C | De tai ls as pe r t he EC | To be re vi se d/ re ad as | J u st ifi c at io n/ re as o n s |
|--------------|---|--|--|--|---|
| | | e s) i.e. be for e El A no tifi ca tio n 19 94 & 20 0 6. | no tifi ca tio n 19 94 & 20 0 6. | | |

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 project was earlier granted environment clearance vide Letter No. IA-J-11011/130/2022-IA-II(IND-I) dated 23.04.2024 for Increasing the production capacity of Axles shop from 75,000 no's/annum (36,750 TPA) to 1,65,000 no's/annum (80,850 TPA) & Existing capacity of Wheel Shop of 2,00,000

no's/annum (97,000 TPA).

2. The instant proposal is for seeking amendment in EC obtained from MoEF&CC vide Letter No. IA-J-11011/130/2022-IA-II(IND-I) dated 23.04.2024 w.r.t rationalisation of the approved wheel production capacity by expressing it in tonnes per annum (TPA) instead of number of wheels, without any change in physical configuration, production process, technology, resource requirement, or pollution load as approved under the existing Environmental Clearance as detailed in relevant para above.
3. The PP reported that the amendment is proposed only to express the approved wheel production capacity in tonnes per annum (TPA) instead of number of wheels, as wheel dimensions and unit weight vary based on product specifications. This change will provide operational flexibility while ensuring that there is no increase in approved capacity, no change in process, and no additional environmental impact. All operations shall remain within the limits prescribed under the existing Environmental Clearance.
4. The Committee further observed that the amendment does not involve any physical expansion, change in process or technology, increase in resource requirement, or enhancement in pollution load, and that all operations shall continue to remain within the limits prescribed under the existing Environmental Clearance. Accordingly, the Committee found the technical justification for the amendment to be satisfactory.

Recommendations of the Committee:

3.4.5. Recommendation of EAC

| |
|-------------|
| Recommended |
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3.4.6. Details of Environment Conditions

3.4.6.1. Specific

| Specific | |
|----------|---|
| 1. | - |

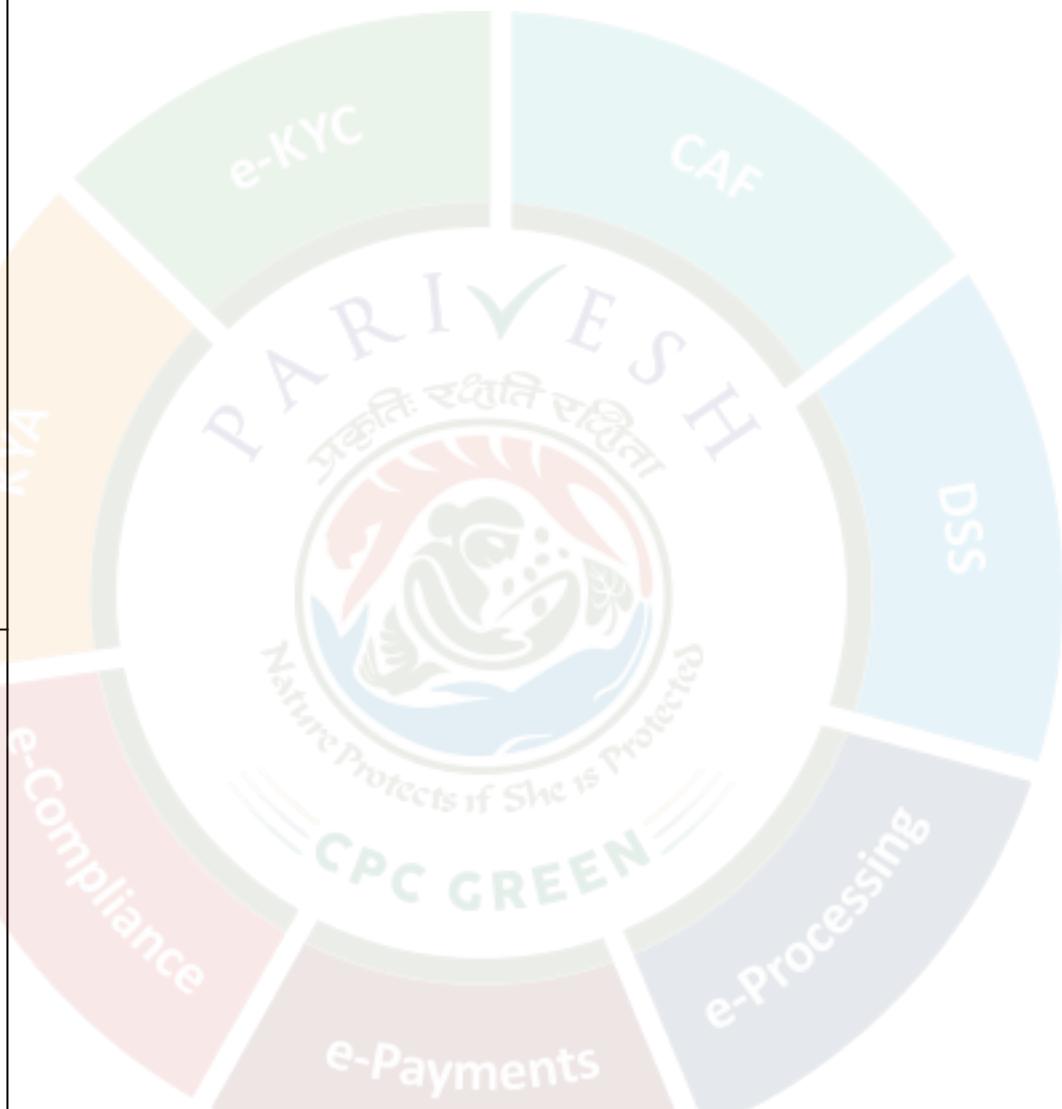
3.5. Agenda Item No 5:

3.5.1. Details of the proposal

| | | | |
|--|--------------------------------|------------------------------------|---|
| POLY CAB INDIA LIMITED by POLY CAB INDIA LIMITED located at DAMAN, THE DADRA AND NAGAR HAVELI AND DAMAN AND DIU | | | |
| Proposal For | | Application for Corrigendum | |
| Proposal No | File No | Submission Date | Activity Sub-Activity (Schedule Item) |
| <u>IA/DN/IND1/565640/2026</u> | IA-J-11011/6/2025-IA-II(IND-I) | 15/01/2026 | Metallurgical Industries (ferrous and non ferrous) Secondary metallurgical industry involving process of melting of non-toxic metals using Electricity / Gas Fuel (3(a)) |

3.5.2. Project Salient Features

| E C P o i n t N o. | P o i n t d e s c r i p t i o n a s p r i n t e d i n E C L e t t e r | P o i n t c o r e c t i o n r e q u i r e d i n E C L e t t e r |
|--|---|--|
| E C A N N E X U R E- III (T a b l e of C o n g i g u r a t i o n/ C a p a | A l u m in iu m R o d - E C G r a d e | Al u m in iu m R o d - E C G r a d e/ A l l o y G r a d e |



| | | |
|---|---|--|
| E C. P o i n t N o. | P o i n t d e s c r i p t i o n a s p r i n t e d i n E C L e t t e r | P o i n t c o r e c t i o n r e q u i r e d i n E C L e t t e r |
| ci ty | | |

3.5.3. Deliberations by the committee in previous meetings

N/A

3.5.4. Deliberations by the EAC in current meetings

Deliberation by the Committee

- M/s. Polycab India Limited had applied for EC vide proposal no. IA/GJ/IND1/551214/2025 dated 03.10.2025 and the EC was issued by MoEF&CC vide F. No. IA-J-11011/6/2025-IA-II(IND-I) dated 24.11.2025 in the name of M/s. Polycab India Limited for production of Aluminium Rods (15000 MT/Month) and Aluminium Conductors (8,100 MT/Month).
- The instant proposal is for seeking corrigendum in Environment Clearance accorded by the Ministry vide F. No. IA-J-11011/6/2025-IA-II(IND-I) dated 24.11.2025 w.r.t. rectifying the product description in the issued EC by including “Alloy Grade” along with “Aluminium Rod – EC Grade,” so as to read as “Aluminium Rod – EC Grade/Alloy Grade,” without any change in approved capacity, process, or environmental impact as detailed in relevant para above.
- PP has reported that the product “Aluminium Rod – EC Grade/Alloy Grade” was indicated at all relevant sections of the Parivesh portal and in the documents submitted along with the EC application. However, in the issued Environmental Clearance, the product name was inadvertently mentioned only as “Aluminium Rod – EC Grade,” omitting the Alloy Grade component.
- However, the EAC, upon perusal of the documents shared through email prior to the appraisal of the

said EC proposal, noted that the PP/ Consultant had themselves omitted the explicit mention of "Alloy Grade" in the relevant submission, and did not sought correction of relevant MoM. The Committee further noted that the PP/ Consultant acknowledged the omission as an inadvertent error on their part and accepted responsibility for the same.

v. The EAC noted that there is no change in configuration / capacity of units in granted EC.

Recommendations of the Committee

3.5.5. Recommendation of EAC

Recommended

3.5.6. Details of Environment Conditions

3.5.6.1. Specific

| Specific | |
|----------|---|
| 1. | - |

Day 2 -23/01/2026

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Expansion of production facilities of Induction Furnace with CCM from existing 59,500 TPA to 289,400 TPA MS Billets along with total Rerolled Steel Production capacity of 272,000 TPA, out of which 242,000 TPA through Hot Charging and 30,000 TPA through existing BRF based rolling mill located at Plot No.3 4-35, Phase-II, Industrial Growth Centre Siltara, Raipur, Chhattisgarh by M/s. Agrawal Channel Mills Private Ltd. by AGRAWAL CHANNEL MILLS PRIVATE LIMITED located at RAIPUR,CHHATTISGARH

| Proposal For | | Expansion EC | |
|--|----------------------------------|-----------------|--|
| Proposal No | File No | Submission Date | Activity Sub-Activity (Schedule Item) |
| IA/CG/IND1/473103/2024 | IA-J-11011/298/2023-IA-II(IND-I) | 08/03/2025 | Metallurgical Industries (ferrous and non ferrous) Secondary metallurgical process involving only heating of non-toxic metals with pickling using Electricity / Gas Fuel (3(a)) |

3.1.2. Project Salient Features

[Proposal no.: IA/CG/IND1/473103/2024; File No. IA-J-11011/298/2023-IA-II (IND-I)]
[Consultant: Anacon Laboratories Pvt. Ltd.; Valid upto: 09.05.2028]

| Date of application | Consideration | Details | Date of acco rd | ToR Validity | | | |
|---|--|--------------------|-----------------|--------------|--|--|--|
| 24.07.2023 | 47 th meeting of EAC held on 25 th October 2023 | Terms of Reference | 28.11.2023 | 27.11.2027 | | | |
| Details of EDS sought by Ministry | | Reply of PP | | | | | |
| EDS generated on dated 25.12.2024 | | | | | | | |
| 1. At Page No ToR-7 and ToR-27, PP mentioned that no Schedule-I species is present in study area, yet a Wildlife conservation plan is submitted with the report. In this regard, PP may update the ToR compliance response at all places in the report to reflect presence of schedule I species and also confirm from the State Forest Deptt. about the complete faunal list as per Wildlife Protection Act, 2022 amendment. The status of approval of WLCP may also be uploaded | <p>This is an expansion of Induction furnace with CCM project by M/s Agrawal Channel Mills Private Limited. The project lies in existing land area at Industrial Growth Centre Siltara, Raipur. No forest land was observed with 10 KM study area. No significant population of wild animals were observed with in study area being located in industrial area. However, as per baseline survey conducted by consultant 5 nos. of wild fauna reported which is protected under Schedule – I as per Wildlife Protection Act, 2022.</p> <p>The details of Schedule – I species within study area are as under: [Indian Jackal (<i>Canis aureus</i>), Indian fox (<i>Vulpes bengalensis</i>), Common Mongoose (<i>Herpestes edwardsii</i>), Indian Cobra (<i>Naja naja</i>), Common Rat Snake (<i>Ptyas mucosa</i>)] observed in study area. The details of the same already provided in Ch. 3 of EIA- EMP report. Biological Conservation and Management Plan {Wildlife Conservation Plan} is submitted.</p> <p>As per observation by the Ministry, we have now updated ToR – 7 and ToR – 27.</p> <p>Present Status of Wildlife Conservation Plan:</p> <p>Biological Conservation Plan is submitted for approval at Principal Chief Conservator of Forest (WL), Raipur by Project Proponent vide Ltr. No ACML/2024-25/45 Dated 01.01.2024. (Acknowledgement copy of letter submitted v Approval of WLCP is under process</p> <p>We have updated EIA-EMP Report and EC form on parivesh portal.</p> | | | | | | |
| 2. The Part - B, point 2.8 mentions No. on the aspect of hazardous materials, however, information and identification of HSD is mentioned in the EIA Report under Chapter 7, which is conflicting. It appears that the 'entries made in the form' and 'the contents of EIA Report need to be cross-checked' in detail. | <p>It is estimated that for any emergency power backup the DG sets are installed for which HSD 2.3 KL storage tank is provided. The fuel used in DG set is a flammable liquid due to their basic characteristics. The details of its hazard consequences analysis and safety measures are already covered in Ch. 7 of EIA report.</p> <p>As per observation, point 2.8 (actually it is 28) at Parivesh Portal now updated with specific details</p> | | | | | | |
| EDS generated on dated 09.01.2025 | | | | | | | |
| 1. The documentary evidence in respect of all CTEs/ CTOs need to be uploaded to check the per | <p>Reply: We wish to most humbly that this issue was previously raised during the appraisal of the ToR application, and we had duly submitted the required details. The committee, after reviewing the information, granted the ToR. We have already submitted details in EIA-EMP report. However, for referen</p> | | | | | | |

| Details of EDS sought by Ministry | Reply of PP |
|---|---|
| <p>missions granted vis-a-vis capacities installed by the PP, since inception of the unit to examine violation aspects.</p> | <p>ce, copies of all previous CTEs and CTOs are enclosed and presented in a tabular format, along with a summary of the chronological events.</p> <p>Chronology of Consent and EC under EIA Notification 2006 and CTE/CTO under Air Act and Water Act for Agrawal Channel Mills Pvt Ltd:</p> <ul style="list-style-type: none"> Ø The Agrawal Channel Mills Pvt Ltd. had obtained its first consent CTE/CTO under Air Act and Water Act from CECB; on 14.08.2006 for production of 24000 TPA Rerolled Steel production from Reheating Furnace, thereafter on 17.10.2013 the consent for establishment of Gasifier had been obtained. (this facility also was not falling under purview of the EC (EIA Notification 2006) at the prevailing time, In compliance to NGT Order dated 12th February, 2020 and MoEFCC, Notification S.O. 3250(E) dated 20th July, 2022, the Rolling Mills were covered EC/ EIA Notification 2006 thus this application was also submitted for regularization of facility. (This has been disclosed during in ToR application. (Please refer ToR Pg. no. 3 of 23). As per the present rules the Standalone rolling or re-rolling mill units not involving any type of melting or pickling are exempted as per MoEFCC, New Delhi Notification S.O. 2215(E) dtd. 7th June, 2024. Ø The Agrawal Channel Mills Pvt Ltd. had obtained separate consent under Air Act and Water Act from CECB; on 14.05.2007 for production of 144 00 TPA of MS Ingot through Induction Furnace. Thereafter on 10.06.2009 the capacity had been expanded to 28800 TPA. The above capacity for the facility was not covered under purview of EIA Notification 2006. Ø Thereafter CTE/CTO from CECB for Expansion of Reheating Furnace based Rerolling mill has been obtained from 24000 TPA 30000 TPA on dated 06.06.2005, renewal of the same was granted till 31.05.2029 through renewal letter dated 29.05.2019 Ø Expansion of Induction Furnaces to produce Hot Charging based Rerolled Steel Product was granted from 28800 TPA to 30000 TPA on 10.06.2015 the renewal of consent had been granted till 31.05.2024 through renewal letter dated 14.06.2019 Ø The Management had decided to expand its Induction Furnace capacity from 30000 TPA to 59500 TPA thus have obtained EC from SEIAA on 20.09.2021. Although the project capacity was falling under B-2 category project; being expansion of project involving less than 60000 TPA. Induction Furnace Capacity and located at notified industrial area, however project being located at CPA has been appraised by SEIAA - CG as category B1. Ø The CTE based on above EC had been obtained on dated 20.01.2022 for 59500 TPA Rerolled Steel Product through Induction Furnace via Hot Charging based rolling mill. Ø Renewal of consent has been granted on 08.02.2023 and renewal till 31.12.2025. Ø At present Induction Furnace to produce Rerolled steel 59500 TPA and a separate Reheating Furnace based Rerolling Mill with capacity 30000 TPA is in operation. Ø At present Induction Furnaces upto 60000 TPA are kept out of EIA Notification 2006. Stand alone rolling mills are also kept out of EIA Notification 2006. <p>There is no violation of EIA Notification of 2006. The detailed chronology in tabulated form are as under:</p> |

| Details of EDS sought by Ministry | Reply of PP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|---------------|---|------------|---|------------|--|---|---|---------|--------------------------------|------------|--------------------------------------|---|--|---------|-------------------------------|------------|--|---|----------------------------|---------------|---|------------|-----------------------------|---|--|---------|-------------------------------------|------------|---|---|-----------------------------|---------|---------------------------------------|------------|---------------------------------|
| | Sl. Details of sanction from State Pollution Control Board(CECB)/ CGSE IAA/ SEA C Document Type Reference number of documents Date Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <td>1</td> <td>First CTE/ CTO for 24000 TPA Reheating Furnace based Re-rolled Steel products</td> <td>CTE/CTO</td> <td>CECB letter 1792 and 1794/RO/TS/CECB/2006 dated. 14/08/2006</td> <td>14/08/2006</td> <td>24000 TPA Reheating Furnace based rolling mill consent</td> </tr> <tr> <td>2</td> <td>Separate CTE/CTO for 14400 TPA I.F. to produce MS Ingot/ Billet</td> <td>CTE/CTO</td> <td>1338 and 1340/ RO/TS/CECB/2007</td> <td>14/05/2007</td> <td>First Consent for Induction Furnace.</td> </tr> <tr> <td>3</td> <td>CTE/CTO for 28800 TPA I.F. to produce MS Ingot/ Billet</td> <td>CTE/CTO</td> <td>1943 and 1944/RO/TS/CECB/2009</td> <td>10/06/2009</td> <td>Expansion of production from 14400 TPA to 28000 TPA MS ingot</td> </tr> <tr> <td>4</td> <td>CTE for Gasifier 24000 TPA</td> <td>CTE expansion</td> <td>CECB letter 1523 and 1524/RO/TS/CECB/2013</td> <td>17/10/2013</td> <td>Gasifier 24000- TPA granted</td> </tr> <tr> <td>5</td> <td>CTE/CTO for the Separate Reheating Furnace based Rolling Mill capacity was expanded to 30000 TPA</td> <td>CTE/CTO</td> <td>CECB letter No: 656/RO/TS/CECB/2015</td> <td>06/06/2015</td> <td>The rolling mill under 30 Kw was not requires EC on the issuance date, now the regularization is also applied with this application</td> </tr> <tr> <td>6</td> <td>CTE/CTO for 30000 TPA Rerol</td> <td>CTE/CTO</td> <td>CECB letter No: 672 and 673/RO/TS/CEC</td> <td>10/06/2015</td> <td>as on this date Rolling Mills w</td> </tr> </table> | 1 | First CTE/ CTO for 24000 TPA Reheating Furnace based Re-rolled Steel products | CTE/CTO | CECB letter 1792 and 1794/RO/TS/CECB/2006 dated. 14/08/2006 | 14/08/2006 | 24000 TPA Reheating Furnace based rolling mill consent | 2 | Separate CTE/CTO for 14400 TPA I.F. to produce MS Ingot/ Billet | CTE/CTO | 1338 and 1340/ RO/TS/CECB/2007 | 14/05/2007 | First Consent for Induction Furnace. | 3 | CTE/CTO for 28800 TPA I.F. to produce MS Ingot/ Billet | CTE/CTO | 1943 and 1944/RO/TS/CECB/2009 | 10/06/2009 | Expansion of production from 14400 TPA to 28000 TPA MS ingot | 4 | CTE for Gasifier 24000 TPA | CTE expansion | CECB letter 1523 and 1524/RO/TS/CECB/2013 | 17/10/2013 | Gasifier 24000- TPA granted | 5 | CTE/CTO for the Separate Reheating Furnace based Rolling Mill capacity was expanded to 30000 TPA | CTE/CTO | CECB letter No: 656/RO/TS/CECB/2015 | 06/06/2015 | The rolling mill under 30 Kw was not requires EC on the issuance date, now the regularization is also applied with this application | 6 | CTE/CTO for 30000 TPA Rerol | CTE/CTO | CECB letter No: 672 and 673/RO/TS/CEC | 10/06/2015 | as on this date Rolling Mills w |
| 1 | First CTE/ CTO for 24000 TPA Reheating Furnace based Re-rolled Steel products | CTE/CTO | CECB letter 1792 and 1794/RO/TS/CECB/2006 dated. 14/08/2006 | 14/08/2006 | 24000 TPA Reheating Furnace based rolling mill consent | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5 | CTE/CTO for the Separate Reheating Furnace based Rolling Mill capacity was expanded to 30000 TPA | CTE/CTO | CECB letter No: 656/RO/TS/CECB/2015 | 06/06/2015 | The rolling mill under 30 Kw was not requires EC on the issuance date, now the regularization is also applied with this application | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Details of EDS sought by Ministry | Reply of PP | | | | |
|-----------------------------------|---|---------------|--|------------|---|
| | Sl. Details of sanction from State Pollution Control Board (CEC B)/ CGSE IAA/ SEA C | Document Type | Reference number of documents | Date | Remarks |
| | led Product through Induction furnace and CCM based Hot charging based direct Rolling Mill | | B/2015 | | ere Not considered to falls under EC purview of EIA Notification 2006 |
| | 7 Renewal of consent for 30000 TPA B RF (Billet reheating Furnace) based Rolling Mill | CTO renewal | CECB letter No: 927/RO/TS/CECB/2019 | 29/05/2019 | Validity renewed up to 31.05.2029 |
| | 8 Renewal of 30000 TPA Rerolled Products through Induction Furnace and CCM based Hot charging based direct Rolling Mill | CTO Renewal | CECB letter No: 1126/RO/TS/CECB/2019 | 14/06/2019 | Renewed till 31.05.2024 |
| | 9 EC from SEIAA for capacity expansion Induction Furnace and CCM based Hot charging based direct | EC | CG SEIAA letter No: 1274/E/C/RAIPUR/1731 | 20/09/2021 | Although it is B2 category project being capacity of I.F. less 60,000 TPA, and located at industrial ar |

| Details of EDS sought by Ministry | Reply of PP | | | | |
|-----------------------------------|---|---------------|---|------------|--|
| | Sl. Details of sanction from State Pollution Control Board (CEC B)/ CGSE IAA/ SEA C | Document Type | Reference number of documents | Date | Remarks |
| | t Rolling Mill from 30000 TPA to 59500 TPA | | | | ea, however located at CPA are in accordance to CP CB mechanism for CPA this project was appraised as B1 category. |
| | 10 CTE/CTO for Expansion Induction Furnace and CCM based Hot charging based direct Rolling Mill from 30000 TPA to 59500 TPA in accordance with EC sanctioned by SEIAA | CTE/CTO | CECB letter No: 3227/RO/TS/CECB/2022 Dated 20.01.2022 | 20/01/2022 | As per EC |
| | 11 Renewal of CTO for 59500 TPA Reroll ed product through 10 MT X 4 Nos Induction Furnace | CTO Renewal | CECB letter No: 4711/RO/TS/CECB/2023 Dated 08.02.2023 | 08/02/2023 | Renewed up to 31.12.2025 |

The consent letters copies have been submitted

The company has also obtained authorization under Hazardous and Other

| Details of EDS sought by Ministry | Reply of PP |
|--|---|
| | <p>Waste (Management and Transboundary Movement) Rules 2016 with Authorization No. 602/HSMD/HO/CECB Valid till 13.04.2028 vide CECB letter 22/HSMD/HO/CECB/2023 dated 17/04/2023 (Copy of authorization is submitted)</p> <p>It is evident with the above that unit has not violated EIA Notification 2006.</p> |
| <p>2. In 2021, the EC was obtained from SEIAA in spite of the location of the project in CPA/ SPA, making it a Category - A project inviting General conditions. PP may submit a clarification in this regard, in consultation with SEIAA.</p> | <p>The information regarding EC obtained from SEIAA in 2021 was also presented before the Expert Appraisal Committee (EAC) (Industry - I), MoEFCC, New Delhi, during the Terms of Reference (ToR) appraisal. We provided a detailed justification on the matter, and after thorough deliberation, the Ministry granted the ToR for our expansion project.</p> <p>However, we wish to submit as below:</p> <p>The project has got existing EC for expansion of Induction Furnaces with Hot Charging rolling mill from 30,000 TPA to 59,500 TPA from SEIAA, CG on 20.09.2021. The project capacity upto 60000 TPA in Industrial area was categorized as B₂ as per OM dtd. 24th December, 2013. However, in compliance to CEPI guidelines SEIAA had appraised this project as B₁ as per provision 7(ii) (a), SEAC on due diligence found there is no increase in pollution load thus, there is no requirement of carrying out EIA and Public Hearing and project has grant EC under B₁ Category. (Please refer Para no. 14 and 15 of enclosed EC granted by SEIAA, CG as Annexure - III)</p> <p>Also, at the time of application of EC for expansion of Induction Furnaces with Hot Charging rolling mill from 30,000 TPA to 59,500 TPA (on dt. 15.07.2021) the NGT order was kept under abeyance by the order of supreme court vide order No. dated 22.10.2020 which was lifted later on by the Supreme court Vide Order No dated 25.02.2022. The SEIAA had considered the project during this period when the NGT order was kept under abeyance by the order of supreme court.</p> |
| <p>3. There are a number of non-compliances and partial compliances reported by IRO in its CCR, which is latest in comparison to CECB report. PP shall submit a review report on the same from the concerned IRO</p> | <p>The issues related to CCR of M/s. Agrawal Channel Mills Pvt. Ltd. we wish to submit as below: -</p> <ul style="list-style-type: none"> Ø We have submitted request for Certified compliance Report to IRO MOEFCC Raipur regional office; on dated 10.05.2023, 24.06.2023 and 29.04.2024.(Request copy enclosed for your reference submitted) Ø Since we did not receive any response to our initial request letter dated 10.05.2023, we subsequently submitted another request to the SPCB on 28.02.2024, (copy submitted) requesting for the issuance of a certified compliance report as per MoEFCC OM dated 08.06.2022. Ø Thereafter, the SPCB (CECB) conducted a site inspection on 27.05.2024 and issued the certified compliance report on 24.06.2024. Ø On 05.07.2024 IRO official have also done a site inspection and have issued CCR on dated 26.07.2024 in which they have raised some observation. Ø We have submitted Action Taken Report to the IRO Raipur; for the observation on dated 05.09.2024 with a request to issue closure report for observation in CCR. Ø On not getting any response from IRO MOEFCC Raipur we have again submitted our reminder request with ATR on 06.12.2024 to issue closure report for observation made in CCR, since more than 3 months have passed after submission of ATR thus; we request you to kindly consider CCR issued by CECB. Ø Now we have again requested for Review report on 14 Jan 2025; |

| Details of EDS sought by Ministry | Reply of PP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|-------------------------|-----------------------|---------------|------|-------|---------------------|------|------|------------------|------|------|---------------|--|--|-----------------|------|-------|-----------|------|-------|--------------|-------------|---------------|----------------------------------|---------------------------------------|---|-------------------------|-----------------------|
| | <p>Ø We have again recently requested to IRO, MoEFCC, Raipur for Closure Report vide letter no. ACMPL/ATR/2025/046 dated 27.02.2025 (Copy enclosed as submitted)</p> <p>Ø The response to our ATR dated 05.09.2024 has been pending with the IRO, Raipur office from six months.</p> <p>Prayer:</p> <p>It is most humbly submitted that the project is getting delayed by more than 23 months for want of CCR report due to manpower constrain in IRO Raipur therefore we humbly request to consider our application based on State Board CCR.</p> <p>It may be appreciated that, as per the new notification dated 07.06.2024, the current capacity and facilities at project is now exempt from the EIA Notification 2006, as the production of MS Billets through induction melting using electrical energy is below sixty thousand tonnes per annum.</p> <p>Therefore, we request you to kindly consider the RO, CECB CCR report sympathetically and take it into account during the EC appraisal.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>4. It is not clear from the submissions made that whether the land identified for additional green belt outside the plant premises is under possession of the PP or not. A clarification in this regard may be provided.</p> | <p>We wish to submit that the land is in possession of the company and its company's own land in which we have already developed additional greenbelt. We have already completed the development of greenbelt at this land. However we wish to clarify that the existing unit is set up in a quite old industrial area plot and the unit has limitations to acquire adjoining land as these adjoining lands are already having industries set up in it, Thus the unit has implemented green belt in the limited available space within the project area and has acquired additional land at within the 5 KM vicinity of project area which is at Khsara No 506/1 area 0.784 Ha. at Village Akoli, P.H. No. 21/93, RNN Dharsiwa, Tahsil and District- Raipur (CG) which is just at a distance of 3.5 KM (E Direction) at Latitude 21°21'39.95"N and Longitude 81°41'29.14"E. and has planted 2000 number of plants (photographs submitted). The 0.784 Ha of land designated for plantation outside the plant premises, to fulfill green belt norms, is registered in the company's name (land document submitted). The constrain it is humbly requested to allow us to complete the balance green belt within the land acquired by us within 5 KM radius as discussed above. The details of area statement are as under:</p> <p>TABLE 1: EXISTING AND PROPOSED AREA STATEMENT</p> <table border="1"> <thead> <tr> <th>Land Use</th><th>Proposed Area (Ha)</th><th>In %</th></tr> </thead> <tbody> <tr> <td>Built Up Area</td><td>1.17</td><td>48.95</td></tr> <tr> <td>Road and Paved area</td><td>0.04</td><td>1.67</td></tr> <tr> <td>(a) Parking Area</td><td>0.02</td><td>0.84</td></tr> <tr> <td>(b) Road Area</td><td></td><td></td></tr> <tr> <td>Green Belt area</td><td>0.46</td><td>19.25</td></tr> <tr> <td>Open Area</td><td>0.70</td><td>29.29</td></tr> <tr> <td>Total</td><td>2.39</td><td>100.00</td></tr> </tbody> </table> <p>TABLE 2: COMPLIANCE OF GREEN BELT CONDITIONS (In Hectare)</p> <table border="1"> <thead> <tr> <th>Total Area within plant premises</th><th>Green belt Area within Plant Premises</th><th>Green Belt area Outside Plant Premises (within 5 KM radius)</th><th>Total Greenbelt Planted</th><th>Total Green belt in %</th></tr> </thead> </table> | Land Use | Proposed Area (Ha) | In % | Built Up Area | 1.17 | 48.95 | Road and Paved area | 0.04 | 1.67 | (a) Parking Area | 0.02 | 0.84 | (b) Road Area | | | Green Belt area | 0.46 | 19.25 | Open Area | 0.70 | 29.29 | Total | 2.39 | 100.00 | Total Area within plant premises | Green belt Area within Plant Premises | Green Belt area Outside Plant Premises (within 5 KM radius) | Total Greenbelt Planted | Total Green belt in % |
| Land Use | Proposed Area (Ha) | In % | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Built Up Area | 1.17 | 48.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Road and Paved area | 0.04 | 1.67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (a) Parking Area | 0.02 | 0.84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (b) Road Area | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green Belt area | 0.46 | 19.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Open Area | 0.70 | 29.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 2.39 | 100.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Area within plant premises | Green belt Area within Plant Premises | Green Belt area Outside Plant Premises (within 5 KM radius) | Total Greenbelt Planted | Total Green belt in % | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Details of EDS sought by Ministry | Reply of PP | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---------------------------------|----------------|-----------------|--------|--|---------------------------|---|---------------------------|--|--|--|---------------------------------|--|--|---|--|---------------------------|--|--|--|
| | <table border="1"> <tr> <td>2.39 Ha.</td> <td>0.46</td> <td>0.78</td> <td>1.24</td> <td>51.89%</td> </tr> </table> <p>Note: Total Green belt = Total Plot area is 2.39 Ha. Green belt area earmarked within plant premises 0.46 Ha. (19.25%) + outside plantation within 5 KM 0.78 Ha (i.e. 32.64%) = 1.24 Ha. (i.e 51.89%)</p> | 2.39 Ha. | 0.46 | 0.78 | 1.24 | 51.89% | | | | | | | | | | | | | | | | |
| 2.39 Ha. | 0.46 | 0.78 | 1.24 | 51.89% | | | | | | | | | | | | | | | | | | |
| 5. Air Quality parameters have been reported beyond standards in the baseline data, a clarification may be submitted on the same along with proposed actions. | <p>The proposed expansion will not require coal or any other fossil fuel, as the Induction Furnaces will operate entirely on electrical energy. The baseline monitoring was conducted within the study area in line with approved ToR during Pre-monsoon Season (15th Mar 2023 – 15th June 2023). The concentration of PM₁₀ was in range of 57.1 µg/m³ to 126.0 µg/m³. The highest Concentration of PM₁₀ (i.e. 126.0 µg/m³) which is beyond the CPCB standards was observed at Siltara. The clarification regarding higher Air Quality parameters are as under:</p> <p>The project is situated in the Industrial Belt of Siltara Industrial Area, Raipur, which has been classified as a Critically Polluted Area by the CPCB. Numerous coal-based sponge iron plants are located within a 5-kilometre radius of the site, and the road conditions in the industrial area are poor. However, our proposed expansion project does not involve any additional use of solid fossil fuels. The list of Industries along with location of industries on map within 10 KM is provided.</p> <p style="text-align: center;">PROPOSED ACTION TO CONTROL AIR POLLUTION</p> <table border="1"> <thead> <tr> <th>Process</th><th>Air Pollution Control Equipment</th><th>Emission Level</th></tr> </thead> <tbody> <tr> <td style="text-align: center;">Existing</td><td></td><td></td></tr> <tr> <td>Induction Furnace and CCM</td><td>Suction Hood with Bag Filter with 30 meter height chimney</td><td>PM <25 mg/Nm³</td></tr> <tr> <td>Coal Gassifier based Reheating Furnace</td><td>Wet Scrubber and Dust cyclone with 30 meter height chimney</td><td>PM <50 mg/Nm³ SO₂ - 300 µg/Nm³ NO_x - 1000 µg/Nm³</td></tr> <tr> <td style="text-align: center;">Proposed after expansion</td><td></td><td></td></tr> <tr> <td>Steel Melting Shop with hot charging rolling mill</td><td>Movable suction hood along with Bag Filters with a chimney</td><td>PM <25 mg/Nm³</td></tr> <tr> <td>Billet Reheating Furnace attached to Re rolling Mill</td><td>Waste heat recuperator with Wet Scrubber and dust cyclone with a Chimney</td><td>PM <30 mg/Nm³ SO₂ - 300 µg/Nm³ NO_x - 1000 µg/Nm³</td></tr> </tbody> </table> | Process | Air Pollution Control Equipment | Emission Level | Existing | | | Induction Furnace and CCM | Suction Hood with Bag Filter with 30 meter height chimney | PM <25 mg/Nm ³ | Coal Gassifier based Reheating Furnace | Wet Scrubber and Dust cyclone with 30 meter height chimney | PM <50 mg/Nm ³ SO ₂ - 300 µg/Nm ³ NO _x - 1000 µg/Nm ³ | Proposed after expansion | | | Steel Melting Shop with hot charging rolling mill | Movable suction hood along with Bag Filters with a chimney | PM <25 mg/Nm ³ | Billet Reheating Furnace attached to Re rolling Mill | Waste heat recuperator with Wet Scrubber and dust cyclone with a Chimney | PM <30 mg/Nm ³ SO ₂ - 300 µg/Nm ³ NO _x - 1000 µg/Nm ³ |
| Process | Air Pollution Control Equipment | Emission Level | | | | | | | | | | | | | | | | | | | | |
| Existing | | | | | | | | | | | | | | | | | | | | | | |
| Induction Furnace and CCM | Suction Hood with Bag Filter with 30 meter height chimney | PM <25 mg/Nm ³ | | | | | | | | | | | | | | | | | | | | |
| Coal Gassifier based Reheating Furnace | Wet Scrubber and Dust cyclone with 30 meter height chimney | PM <50 mg/Nm ³ SO ₂ - 300 µg/Nm ³ NO _x - 1000 µg/Nm ³ | | | | | | | | | | | | | | | | | | | | |
| Proposed after expansion | | | | | | | | | | | | | | | | | | | | | | |
| Steel Melting Shop with hot charging rolling mill | Movable suction hood along with Bag Filters with a chimney | PM <25 mg/Nm ³ | | | | | | | | | | | | | | | | | | | | |
| Billet Reheating Furnace attached to Re rolling Mill | Waste heat recuperator with Wet Scrubber and dust cyclone with a Chimney | PM <30 mg/Nm ³ SO ₂ - 300 µg/Nm ³ NO _x - 1000 µg/Nm ³ | | | | | | | | | | | | | | | | | | | | |
| 6. It is learnt that the State Government of Chhattisgarh had imposed ban on establishment of New Sponge Iron Plant and Coal based Power Plant (Ref:783/ 205/ 07 Date d: 16/ 03/ 2007) and ban on diversification (involving use of coal as fuel or raw material) of ex | <p>We acknowledge the query regarding the State Government of Chhattisgarh orders [Ref: 783/205/07 dated 16.03.2007] and [Ref: 3529/205/05/11(E) dated 12.12.2007], which impose a ban on the establishment of new sponge iron plants and coal-based power plants, as well as restrictions on diversification involving the use of coal as fuel or raw material. The proposed expansion will not require any Coal or other fossil fuel as Induction Furnaces are operated on Electrical Energy.</p> <p>In this regard, we submit the following clarifications:</p> <p>1. Nature of the Proposed Expansion</p> <ul style="list-style-type: none"> Our proposed expansion solely involves an increase in the capacity of the Induction Furnace with CCM, which operates on electrical energ | | | | | | | | | | | | | | | | | | | | | |

| Details of EDS sought by Ministry | Reply of PP |
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| <p>isting industries [Ref: 3 529/ 205/ 05/ 11(E) Da ted: 12.12.2007]. PP sh all submit information o n the implications of th e orders on existing/ pr oposed activities cover ed under the project.</p> | <p>y.</p> <ul style="list-style-type: none"> · Hence, there is no proposal for new sponge iron plant or coal-based powe r plant is being established under this expansion. · The project does not include any diversification that involves the use of ad ditional coal as fuel or raw material. <p>2. Compliance with State Government Orders</p> <ul style="list-style-type: none"> · Since our expansion is entirely electrical energy-based, and there is no ch ange in reheating capacity of existing unit it does not fall under the pur view of the restrictions imposed by the State Government's orders. · The orders specifically pertain to coal-based projects, which do not apply to our proposed activities. <p>3. Implications of the Orders on the Project</p> <ul style="list-style-type: none"> · As there is no additional coal consumption or introduction of a coal-based process, the bans do not have any implications on our expansion pro posal. · The project remains fully compliant with state regulations and environmen tal guidelines. <p>4. Supporting Documentation</p> <ul style="list-style-type: none"> · A self-declaration confirming that the expansion does not involve coal as fuel or raw material is provided. |

| Sl. | Particulars | Details | Remarks |
|-----|--|---|--|
| 1. | Total land | <p>Total Project area existing land – 2.39 Ha. [Govt. (Leased land);]</p> <p>*Additional Green belt at Khasara No 506/1 area 0.784 at Vill age Akoli, P.H. No. 21/93, RNN Dharsiwa, Tahsil and District- Raipur (CG) which is just at a distance of 3.5 KM (E Direction)</p> | <p>The land is under in dustrial area develo ped by Govt. of Chhattisgarh befor e EIA 2006 and lan d use is industrial. This is leased land f or which lease dee d of 2.39 Ha. has b een executed. The l and is under posses sion of the compan y and existing plant is operating in it. T he project expansio n is proposed on ex isting 2.39 Hectare s of industrial land. The additional land has been purchase d for green belt an d it has been plante d.</p> |
| 2. | Land acquis ition details as per MoE F&CC O.M. | <p>The total project area for expansion is 2.39 Hectare. The land is existing industrial land. No additional land proposed to be a cquired. Greenbelt area 19% (i.e., 0.46 Ha.) will be kept unch anged. The land already diverted to industrial purpose.</p> | <p>No additional land proposed to be acq uired. MoEF&CC O. M. dated 7/10/201</p> |

| Sl. | Particulars | Details | Remarks | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|----------------------|---------------|-----------|----------------|---------------|---------------|--------------------------------|---------------|---------------|----------------------------|---------------|---------------|-------------------------|---------------|---------------|--|------|----|--|
| | dated 7/10/2014 | *Additional Green belt at Khasara No 506/1 area 0.784 at Village Akoli, P.H. No. 21/93, RNN Dharsiwa, Tahsil and District-Raipur (CG) which is just at a distance of 3.5 KM (E Direction) | 4 is not applicable. | | | | | | | | | | | | | | | | | | |
| 3. | Existence of habitation & involvement of R&R, if any. | <p>Project Site: No</p> <p>Study Area:</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Siltara</td> <td>0.98</td> <td>E</td> </tr> <tr> <td>Sondra</td> <td>1.77</td> <td>SW</td> </tr> <tr> <td>Sankara</td> <td>1.85</td> <td>SSW</td> </tr> <tr> <td>Tanda</td> <td>2.7</td> <td>E</td> </tr> </tbody> </table> | Habitation | Distance | Direction | Siltara | 0.98 | E | Sondra | 1.77 | SW | Sankara | 1.85 | SSW | Tanda | 2.7 | E | R&R plan is not required, as the land is existing industrial land. | | | |
| Habitation | Distance | Direction | | | | | | | | | | | | | | | | | | | |
| Siltara | 0.98 | E | | | | | | | | | | | | | | | | | | | |
| Sondra | 1.77 | SW | | | | | | | | | | | | | | | | | | | |
| Sankara | 1.85 | SSW | | | | | | | | | | | | | | | | | | | |
| Tanda | 2.7 | E | | | | | | | | | | | | | | | | | | | |
| 4. | Latitude and longitude of all corners of the project site. | <table border="1"> <thead> <tr> <th>Points</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>21°22'17.02"N</td> <td>81°39'29.15"E</td> </tr> <tr> <td>02</td> <td>21°22'23.27"N</td> <td>81°39'31.73"E</td> </tr> <tr> <td>03</td> <td>21°22'21.56"N</td> <td>81°39'35.61"E</td> </tr> <tr> <td>04</td> <td>21°22'21.56"N</td> <td>81°39'35.61"E</td> </tr> </tbody> </table> | Points | Latitude | Longitude | 01 | 21°22'17.02"N | 81°39'29.15"E | 02 | 21°22'23.27"N | 81°39'31.73"E | 03 | 21°22'21.56"N | 81°39'35.61"E | 04 | 21°22'21.56"N | 81°39'35.61"E | Plot No. 34-35, Phase - II Industrial Growth Centre, Siltara Raipur - 493 111, State Chhattisgarh. | | | |
| Points | Latitude | Longitude | | | | | | | | | | | | | | | | | | | |
| 01 | 21°22'17.02"N | 81°39'29.15"E | | | | | | | | | | | | | | | | | | | |
| 02 | 21°22'23.27"N | 81°39'31.73"E | | | | | | | | | | | | | | | | | | | |
| 03 | 21°22'21.56"N | 81°39'35.61"E | | | | | | | | | | | | | | | | | | | |
| 04 | 21°22'21.56"N | 81°39'35.61"E | | | | | | | | | | | | | | | | | | | |
| 5. | Elevation of the project site | 275- 278 M above mean sea level. | Flat Land | | | | | | | | | | | | | | | | | | |
| 6. | Involvement of Forest land if any. | 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 | <p>Project Site: NA</p> <p>Study area:</p> <table border="1"> <thead> <tr> <th>Name of Water body</th> <th>Distance (km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>1. Karun River</td> <td>4.90</td> <td>W</td> </tr> <tr> <td>2. Arbandha Talab, Giroud R d.</td> <td>5.78</td> <td>ESE</td> </tr> <tr> <td>3. Rani Sagar Talab, Kunra</td> <td>6.46</td> <td>NNE</td> </tr> <tr> <td>4. Dongia Talab, Giraud</td> <td>4.21</td> <td>SE</td> </tr> <tr> <td>5. Pachri Talab, Giraud</td> <td>4.19</td> <td>SE</td> </tr> </tbody> </table> | Name of Water body | Distance (km) | Direction | 1. Karun River | 4.90 | W | 2. Arbandha Talab, Giroud R d. | 5.78 | ESE | 3. Rani Sagar Talab, Kunra | 6.46 | NNE | 4. Dongia Talab, Giraud | 4.21 | SE | 5. Pachri Talab, Giraud | 4.19 | SE | No natural water body is involved in the proposed plant site hence authenticated HFL data of the water body is not required. |
| Name of Water body | Distance (km) | Direction | | | | | | | | | | | | | | | | | | | |
| 1. Karun River | 4.90 | W | | | | | | | | | | | | | | | | | | | |
| 2. Arbandha Talab, Giroud R d. | 5.78 | ESE | | | | | | | | | | | | | | | | | | | |
| 3. Rani Sagar Talab, Kunra | 6.46 | NNE | | | | | | | | | | | | | | | | | | | |
| 4. Dongia Talab, Giraud | 4.21 | SE | | | | | | | | | | | | | | | | | | | |
| 5. Pachri Talab, Giraud | 4.19 | SE | | | | | | | | | | | | | | | | | | | |
| 8. | Existence of ESZ/ESA / national park/ wildlife sanctuary/ biosphere reserve/tiger reserve/ elephant reserve etc. if any within the study area | Nil | | | | | | | | | | | | | | | | | | | |

| S L. N o. | Facilities | Units | As per EC and CTE dated | Implementation Status as on 28.03.2025 | Production as per CTO |
|------------------------------------|---|---|---|--|--|
| 1 | Induction Furnace and CCM and hot charging based electrical driven rolling mill | Induction Furnace (10 Tons X 4 Nos along with CCM and 198 TPD electrical driven rolling mill. | 20/09/2021 (EC) and (CTE/CTO) | Implemented | 59,500 TPA |
| 2 | Billet Reheating Furnace | 100 TPD | 06/06/2015 (CTE/CTO) | Implemented | 30,000 TPA |
| S L. | Details | Existing Permitted Capacity TPA | Proposed Capacity addition TPA | Final Capacity after Expansion TPA | Remarks |
| 1 | Induction Furnace and CCM and hot charging based electrical driven rolling mill | Induction Furnace (10Tons X 4 Nos along with CCM and 198 TPD electrical driven rolling mill. | Existing 10 Tons X 4 Nos Induction Furnace will be augmented 12 Tons X 4 Nos. and 20 MT X 2 Nos. new I.F. will be implemented along with CCM Rolling Mill capacity will be augmented additional 608 TPD rolling mill capacity | Induction Furnace 12 Tons X 4 Nos. and 20 MT X 2 Nos new I.F. along with CCM and hot charging based electrical rolling mill 807 TPD capacity | -The facility will not require any fuel and hot charging based technology will be adopted for rolling mill |
| 2 | Billet Reheating Furnace | 100 TPD | No change | 30000 TPA | No Change |
| Name of Raw Material | | Qty. Required (In TPA) | Source | Distance (In Km) | Mode of Transportation |
| For Induction Furnace (SMS) | | | | | |
| Sponge Iron | | 311,105.00 | Local market | Within 50 Kms | By Road through covered vehicles |
| Pig Iron / CI Scrap | | 38,189.00 | Captive production/ Local market | Within 50 Kms | By Road through covered vehicles |
| Melting Scrap | | 18,000.00 | Captive generation/ Local market | Captive/ Within 50 Kms | Internally available/ By Road through covered vehicles |

| Name of Raw Material | Qty. Required (In TPA) | Source | Distance (In Km) | Mode of Transportation |
|--|---|--|------------------|---|
| Ferro Alloys | 2894.00 | Local market | Within 50 Kms | By Road through covered vehicles |
| Aluminum | 290.00 | Open Market/BAL CO | Within 250 Kms | By Road through covered vehicles |
| Ramming Mass | 724.00 | Open Market | Within 100 Kms | By Road through covered vehicles |
| Total | 371,202.00 | | | |
| Rolling Mill (272,000 TPA) | | | | |
| For Hot Charging based Rerolling mill (242,000 TPA) | | | | |
| Hot Billets | 242,400.00 | Captive Production in Steel Melting shop | Captive | Internal Transfer |
| Total | 242,400.00 | | | |
| For Reheating Furnace based Rerolling mill | | | | |
| Cold Billets | 30000.00 | Captive Production | | Internal Transfer |
| Coal | 3600.00 | SECL Coal mine/s/ Open market/Local Market | Within 500 Kms | Coal will be transported by rail head up to nearest Railway sidings and then by Road through covered vehicles |
| Total | 33600.00 | | | |
| Period | Winter Season (15th Mar 2023 – 15th June 2023) | | | |
| AAQ parameters at 8 Locations (min and max) | <p>PM₁₀ = 57.1 to 126 µg/m³ PM_{2.5} = 19.5 to 51.3 µg/m³ SO₂ = 7.8 to 28.5 µg/m³ NO₂ = 12.7 to 40.6 µg/m³ CO = 0.245 mg/m³ to 0.562 mg/m³</p> | | | |

| Incremental GL C level | Concentration due to existing activities | Incremental Concentration due to proposed activities | | | | | | | | | | | | | | | |
|---|--|---|-----------------------|-------------------------|--------------------|-----|---------------------------------|-------|-------|--------|--------------------|---|------|-------|--------|--------------|--|
| | $(PM_{10}) = 0.18 \mu g/m^3$ (Level at 400 m in SW Direction) $(PM_{2.5}) = 0.08 \mu g/m^3$ (Level at 400 m in SW Direction) $SO_2 = 1.22 \mu g/m^3$ (Level at 400 m in SW Direction) $NO_2 = 3.99 \mu g/m^3$ (Level at 400 m in SW Direction) | $(PM_{10}) = 0.24 \mu g/m^3$ (Level at 400 m in SW Direction) $(PM_{2.5}) = 0.06 \mu g/m^3$ (Level at 400 m in SW Direction) $SO_2 = 0.00 \mu g/m^3$ (Level at 400 m in SW Direction) $NO_2 = 0.00 \mu g/m^3$ (Level at 400 m in SW Direction) | | | | | | | | | | | | | | | |
| Ground water quality at 8 locations | <p>pH: 7.40 to 7.82 Total hardness: 248.24 to 553.19 mg/l. Chloride: 92.78 to 181.30 mg/l Fluoride: 0.29 to 0.53 mg/l, Nitrate: 9.74 to 27.74 mg/l, Sulphate: 19.14 to 44.40 mg/l</p> | | | | | | | | | | | | | | | | |
| Surface water quality at 8 locations | <p>pH: 7.28 to 7.82. Chloride: 70.53 to 156.46 mg/l. Sulphate: 29.28 to 37.71 mg/l. DO: of 5.4 to 6.4 mg/l. COD from 22.95 to 65.18 mg/l and BOD from 6.54 to 21.36 mg/l.</p> | | | | | | | | | | | | | | | | |
| Noise levels Leq. (Day and Night) | <p>Noise levels at every station were within CECB standards. Residential Area – 51.4 to 53.2 dBA for day time and 39.7 to 41.3 dBA for night time. Commercial Area – 63.7 to 64.2 dBA for day time and 44.5 to 46.3 dBA for night time. Silence Zone – 47.8 dBA to 48.4 dBA for day time and 37.7 dBA to 38.1 dBA for night time. Industrial area - 66.7 to 68.1 dBA for day time and 51.8 to 54.46 dBA for night time.</p> | | | | | | | | | | | | | | | | |
| Traffic assessment study findings | <ul style="list-style-type: none"> Traffic study has been conducted at NH-30 (Raipur to Bilaspur Road) and Road Connecting project site with NH-30. Transportation of raw materials, fuel & furnished product will be done 100% by road. Existing PCU is 18028 PCU/day on NH-30 (Raipur to Bilaspur Road) and Existing PCU is 6843 PCU/day on Road Connecting project site with NH-30 and existing level of service (LOS) for both the road is: C <table border="1"> <thead> <tr> <th>Road</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>NH-30 (Raipur to Bilaspur Road)</td><td>18028</td><td>35000</td><td>0.5150</td><td>C (GOOD/AVG /FAIR)</td></tr> <tr> <td>Road Connecting project site with NH-30</td><td>6843</td><td>15000</td><td>0.4562</td><td>C (GOOD/AVG)</td></tr> </tbody> </table> | Road | V (VOLUME IN PCU/DAY) | C (CAPACITY IN PCU/DAY) | Existing V/C Ratio | LOS | NH-30 (Raipur to Bilaspur Road) | 18028 | 35000 | 0.5150 | C (GOOD/AVG /FAIR) | Road Connecting project site with NH-30 | 6843 | 15000 | 0.4562 | C (GOOD/AVG) | |
| Road | V (VOLUME IN PCU/DAY) | C (CAPACITY IN PCU/DAY) | Existing V/C Ratio | LOS | | | | | | | | | | | | | |
| NH-30 (Raipur to Bilaspur Road) | 18028 | 35000 | 0.5150 | C (GOOD/AVG /FAIR) | | | | | | | | | | | | | |
| Road Connecting project site with NH-30 | 6843 | 15000 | 0.4562 | C (GOOD/AVG) | | | | | | | | | | | | | |

h NH-30

/FAIR)

- PCU load after proposed expansion project will be 18028 (Existing) + 538 (Additional) PCU/day on NH-30 (Raipur to Bilaspur Road) and 6843 (Existing) + 538 (Additional) PCU/day on Road Connecting project site with NH-30 and level of service (LOS) will be: C

| Road | Increased PCU's- State/ National Highway | V (VOLUME IN PCU/DAY) | C (CAPACITY IN PCU/DAY) | Modified V/C Ratio | LOS |
|---|--|-----------------------|-------------------------|--------------------|--------------------|
| NH-30 (Raipur to Bilaspur Road) | 18028 + 538 = 18566 | 18566 | 35000 | 0.5304 | C (GOOD/AVG /FAIR) |
| Road Connecting project site with NH-30 | 6843 + 538 = 7381 | 7381 | 15000 | 0.4921 | C (GOOD/AVG /FAIR) |

*Note: Capacity as per IRC: 64-1990) Guide line for capacity for roads.

Conclusion: The level of service will be C after including additional traffic due to proposed expansion project activity.

Flora

According to IUCN Status report 2023-1 out of total 110 plant species identified within study area among the observed species Chloroxylon swietenia which is Vulnerable (VU) species as per IUCN RED list. The other identified plant species in the study area belongs to least concern (LC), Data Deficient (DD) and Data not evaluated (NE), as per IUCN status report 2023-1

Fauna

Among mammals; Jackal (*Canis aureus*), and Indian fox (*Vulpes bengalensis*) are protected in Schedule-I.

Among the Herpetofauna, Indian Cobra (*Naja naja*), and Common Rat Snake (*Ptyas mucosa*) were provided protection as per Schedule-I of Wild life (protection) Amendment act, 2022

| Sl. No. | Name of Waste generated | Qty (TPA) | Proposed Disposal Plan |
|---------|--------------------------------------|-----------|--|
| 1. | Mill Scale | 18,000 | Sold to Ferro Alloys/Pellet Plant used as Raw Material |
| 2. | Defective Billets (IF) | 9,300 | Reused in own Induction Furnace/ Sold to other Mini Steel Plants used as Raw Material |
| 3. | Slag from Induction Furnace | 47,028 | Used for own metal recovery unit and granulated slag will be given to brick making and road making etc beneficial purpose. |
| 4. | Miss Rolls and End cuts | 8,700 | Reused in own Induction Furnace/ Sold to other Mini Steel Plants used as Raw Material |
| 5. | Refractory & Ramming Mass waste (IF) | 362 | Sold to authorized recyclers |
| 6. | Ash from Coal firing in BRF | 1,260 | Given to Fly Ash Brick making unit |

| Sl. No. | Name of Waste generated | Qty (TPA) | Proposed Disposal Plan |
|---------|-------------------------|---------------|------------------------|
| | Total | 84,650 | |

HAZARDOUS WASTE GENERATION

| Sl. No. | Type of Hazardous Waste | H. W. Category | Quantity | Disposal |
|---------|--------------------------|-----------------------------|------------|---|
| 1. | Waste Oil/Used Oil | 5.1(as per HWM Schedule I) | 3 KL/Annun | Will be given to authorized recycler having Authorization from competent authority. |
| 2. | Used Lead Acid batteries | 17 (as per HWM Schedule IV) | --- | |

| | | | |
|--------------------------------|--|--|--|
| Details of advertisement given | <p>Ø The Pioneer (English News Paper) Date: 28/01/2024</p> <p>Ø Patrika (Hindi Newspaper) Date: 28/01/2024</p> | <p>Haribhumi, Raipur Date - 14.12.2022</p> | <p>Haribhumi, Bilaspur Date - 14.12.2022</p> |
| Date of public consultation | 29/02/2024 at 11:00 AM | | |
| Venue | Panchayat Bhawan Parisar, Village - Murethi, Siltara (Near Industrial Area), District - Raipur, Chhattisgarh | | |
| Presiding Officer | <p>Additional District Magistrate, District Raipur</p> | | |
| Major issues raised | <ul style="list-style-type: none"> Major Issue raised is: 1. Concern about employment to Local Peoples as per their qualification, minimum wages according to the Factories Act, 1948 and employment camp. 2. Demand to plantation work on Govt. lands or open spaces in villages Siltara & Munrethi. 3. Development work should be done to villages from the project site under the CSR fund. 4. Concern about Road dust, traffic, and trucks parking facilities. 5. Need to help on the occasion of social welfare programs of the villages. 6. Demand to paved road with murum of both side of road between Murethi to Siltara. 7. Chances are increased of respiratory diseases due to air pollution. 8. Concern about the water pollution and its impact on Human life. 9. Demand to compensate for affected crops production due to air and water pollution. 10. Demand to compensate for damaged fencing material (Cement pol and fencing wire) due to transportation of materials of company. 11. Suggestion to 4 times water sprinkling in one day so that dust pollution can decrease. | | |

Action Plan as per OM dated 30.09.2020

| S. r. N. o. | Particulars | Physical Status | Target of Implementation of Action Plan (Timeline) | | | Rs. (in lakhs) |
|---|--|--|---|---|--|---|
| | | | 1 st Year (01.04.2026 to 31.03.2027) | 2 nd Year (01.04.2027 to 31.03.2028) | 3 rd Year (01.04.2028 to 31.03.2029) | |
| 1 | Rain Water harvesting structures at Village panchayat and schools and other community places | Location: Village Siltara Work: 05 Nos. of Rain Water Harvesting Structures | Implementation of 5 Rain Water harvesting structures village Siltara | To be completed by End of Financial year | Yearly maintenance of the system implemented | 5.00 |
| 2 | Development of Green Belt /Park in open space | Location: Village Siltara Work: Development of Green Belt /Park in open space | Starting of Development of Green Belt /Park in open space at Siltara Village | Completion of work | Yearly maintenance of the green belt implemented - | 25.00 |
| 3 | School upliftment by way of smart classroom and library | Location: Govt School Village Siltara Work: Development of Green Belt /Park in open space | Identification of school and providing smart classroom and creation of library. | - | - | 10.00 |
| Total : (Rupees Forty Lakhs Lakhs) | | | | | | 40.00 |
| S. l. | Particulars | Qty. in Nos. | Existing (Rs. In Lakhs) | Proposed addition (Rs. In Lakhs) | Total cost after expansion (Rs. In Lakhs) | Operation & Maintenance cost (Rs. In Lakhs) |
| | Plant and Machinery proposed for EMP | | | | | |
| 1 | Cost of Bag Houses for Induction Furnaces | 1 | 25 | - | 25 | 0.63 |
| 2 | Cost of Wet Scrubber for Reheating Furnace | 1 | 15 | - | 15 | 0.38 |
| | Building and Civil works used for EMP | | | | | |

| S. L. | Particulars | Qty. in Nos. | Existing (Rs. In Lakhs) | Proposed addition (Rs. In Lakhs) | Total cost after expansion (Rs. In Lakhs) | Operation & Maintenance cost (Rs. In Lakhs) |
|---|---|--------------|-------------------------|----------------------------------|---|---|
| 3 | Cost of Chimney in Induction Furnace Plant | 1 | 10 | - | 10 | 0.25 |
| 4 | Cost of Chimney in Billet Reheating Furnace | 1 | 10 | - | 10 | 0.25 |
| 5 | Oil Trap in the drains system | 1 | 2 | - | 2 | 0.05 |
| 6 | Silt Arrestation Pit in Storm Water Drains | 1 | 5 | - | 5 | 0.13 |
| 7 | Internal Road Black topping and other construction works for Paving the Floors | | 10 | 15 | 25 | 0.63 |
| 8 | Drainage system | | 5 | 15 | 20 | 0.50 |
| Exclusive cost of works used for EMP | | | | | | |
| 9 | Cost of Septic Tank and Soak pit for Domestic Waste Water | 1 | 1.5 | 5 | 6.5 | 0.16 |
| 10 | Green Belt Plantation along with Irrigation System and Pipe Line | | 2 | 2 | 4 | 0.10 |
| 11 | Cost of compensatory Green belt Plantation | | 50 | - | 50 | 1.25 |
| 12 | Fugitive dust Control Spray system in Plant | 4 | 4 | - | 4 | 0.10 |
| 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 Induction Furnace and Rolling mill | 2 | 3 | - | 3 | 0.08 |
| 16 | On Line AAQ monitoring station | | | 35 | 35 | 0.88 |
| 1 | Respirable dust sampler, Noise m | 1 | 1.5 | - | 1.5 | 0.04 |

| S. L. | Particulars | Qty. in Nos. | Existing (Rs. In Lakhs) | Proposed addition (Rs. In Lakhs) | Total cost after expansion (Rs. In Lakhs) | Operation & Maintenance cost (Rs. In Lakhs) |
|------------------------------------|--|---|-------------------------|----------------------------------|---|---|
| 7 | meter and Stack Monitoring Kits1 | | | | | |
| 18 | Ground water Monitoring Piezo Meters | 1 | 1 | - | 1 | 0.03 |
| 19 | On Line Effluent Quality Monitoring System (EQMS) | - | | 6 | 6 | 0.15 |
| 20 | Environment Monitoring Laboratory Testing Equipment and Chemicals and Furniture and computer systems etc | - | 5 | - | 5 | 0.13 |
| 21 | Rain Water Harvesting and Recharge system with Roof Harvesting and Rain Water Collection Tank | - | 2 | 3 | 5 | 0.13 |
| 22 | Noise Reduction enclosure/ anti vibration pad etc. | - | 2 | - | 2 | 0.05 |
| 23 | Conservation Measures & Other Miscellaneous | - | 3 | 5 | 8 | 0.20 |
| 24 | CER works for improvement of surrounding Environment | - | 9 | 30 | 39 | - |
| 25 | Biological Conservation Plan | - | - | 10 | 10 | 2.0 |
| Total Expenses in Lakhs Rs. | | - | 169 | 126 | 295 | 8.20 |
| S. L. N. o. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | | | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 | |
| 1. | No all copies of CTE/CTOs since the operation of the industry have been received in this Office. Therefore, the proponent is instructed to furni | We have already submitted the copies of all obtained CTE/CTO through hard drive dated-23.07.2024 (a hard copy is also submitted to your good office dated- 25.07.2024) (acknowledge of email & hard copy is enclosed as Annexure-01). | | | Project Authority in their reply has furnished the copies of CTOs obtained. Project Authority in their reply erroneously mentioned the validity of CTO renewed is till 31/12/2024. However, CTO renewed is valid till 31/12/2025. Copy of CTE obtained after EC has not been made avail | |

| S L. N. o. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
|---------------------|--|--|---|
| | <p>sh all copies of CTE/CTOs (Statutory Compliance, Condition no.ii, page no.1).</p> | <p>We are submitting again copies of all Obtained CTE/CTO.</p> <ol style="list-style-type: none"> Grant of consent 672/RO/TS/CECB/2015 and 673/RO/TS/CECB/2015 Raipur dated 10/06/ for water. Renewal of consent 923/RO/TS/CECB/2016 Raipur, Date d-30/06/2016 and 924/RO/TS/CECB/2016 Raipur, Date d- 30/06/2016 for rerolled product (through Induction Furnace)- 30.000MT/Year valid till 31/05/2019. Renewal of consent 1210/RO/TS/CECB/2016 Raipur, Dated-28/07/2016 and 1211/RO/TS/CECB/2016 Raipur, Dated- 28/07/2016 for rerolled product (through Induction Furnace)- 30.000MT/Year valid till 31/05/2019. Renewal of consent 927/RO/TS/CECB/2019 Raipur, Date d-29/05/2019 for Hot Charging- 30.000MT/Year valid till 31/05/29. Renewal of consent 1126/RO/TS/CECB/2019 Raipur, dated 14/06/2019 for Hot Charging-30,000N4T/Year valid till 31/05/24. Grant of consent 3227/RO/TS/CECB/2022 Raipur, Dated-20/01/2022 for Hot Charging- 59,500MT/Year. Renewal of consent 4711/RO/TS/CEC13/2023 Raipur, dated 08/02/2023 for Hot Charging- 59,500MT/Year valid till 31/12/24. <p>We are again enclosing copy of CTE/CTO.</p> | <p>able in their reply.</p> |
| 2. | No authorization letter for the period from 20/9/2021 to 13/4/2023 has been obtained. | We have already submitted the copy of authorization letter obtained under Hazardous and Other Waste (Management and Transboundary Movement) Rule 2016 (vide | Project Authority in their reply neither submitted authorization letter obtained for the period 20/9/2021 to 13/4/2023 nor made any clarification for not obtaining the same fo |

| S L. N. o. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
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| | Therefore, the proponent is instructed to clarify for not obtaining authorization from CECB or submit copy of authorization letter, if obtained, to this Office (Statutory Compliance, Condition no. iv, page no.2). | letter No. 222/HSMD/HO/CECB/2023 dated- 17/04/2023 valid till 13/04/2028) through email date d-23.07.2024 (a hard copy is also submitted to your good office). The copy for the same is submitted. | For the said period rather submitted a copy of authorization letter obtained under Hazardous and other Waste (Management and Transboundary Movement) Rule 2016 from the CECB vide letter No. 222/HSMD/HO/CECB/2023 dated 17/04/2023, which is valid till 13/04/2028. |
| 3 | Continuous stack emission monitoring system has not been connected to CECB/CPCB servers. Therefore, the proponent is instructed to connect to CECB/CPCB servers and submit details and monthly stack emission reports to this Office (Air Quality Monitoring and Preservation, Condition no.i, page no.2) | <p>The continuous stack emission monitoring system are well connected to servers the details are as follows:</p> <p>Raw Coal Received: https://www.pollution-monitor.com/ Agrawal_Channel AC@123</p> <p>The monthly stack emission detail for the month of July and August is submitted. The photographs and online emission data report has already been submitted along with Six monthly compliance report submitted through email to your office on dated-18.04.24 at 18.45 as part of EC compliance a hard copy has also submitted to IRO dated-29.04.2024. (acknowledged copy of submission is submitted.</p> | <p>From the reply of the Project Authority, it has been observed that online continuous emission monitoring system has been installed and reportedly monitored data has been linked to the server of the supplier.</p> <p>Further, the user id and password furnished in the reply is not valid, so this Office unable to verify the status. Project Authority has not linked the OCEMs installed with the servers of the CPCB. Project Authority informed that the matter is being pursued through their supplier.</p> |
| 4 | No six-monthly compliance reports (except six monthly compliance report October 2023 March 2024) and monthly stack emission reports have been received in this Office. Therefore, the proponent is instructed to clarify for no | We are submitted six monthly compliance; the details are as follows: | Project Authority in their reply furnished the supporting documents regarding the six-monthly compliance report submitted to the regulatory Authority. |

| S L. N. o. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
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| | t submitting regularly six monthly compliance reports and monthly stack emission reports to this Office and also to other regulatory authorities (Air Quality Monitoring and Preservation, Condition no.v, page no.3) | | |
| 5 | No ETP/STP has been observed. No industrial effluent and domestic effluent reports have been received. Therefore, the proponent is instructed to provide ETP/STP and submit industrial effluent and domestic effluent reports to this Office (Water Quality Monitoring and Preservation, Condition no. i & iii, page no.4 & 5) | In our unit Induction Furnace, CCM and Hot Charging rolling mill has been implemented and operated under this EC, in which water is required for cooling purpose. We have adopted closed circuit cooling system for cooling, in which water is regularly recirculated. Therefore, there is no effluent water generated. A settling tank has been provided in which mill scale and other particle are settled and water is recirculated. No industrial waste water generation. As the domestic waste water generation is less than 10 KLD thus we have provided soak pit for domestic waste water | Water is being used only for cooling purpose, which is being recirculated and there is no any process effluent generation. Settling tank has been provided. There is no disposal of water outside the plant premises. Presently no STP has been installed. Domestic wastewater generation is reportedly less than 10 KLD, which is being treated through soak pit. |
| 6 | No collection pit to arrest runoff water has been observed received (Water Quality Monitoring and Preservation, Condition no.iv, page no.5) | We have provided drain line for rain water flow as well as rain water storage tank inside the premises to collect water. We are enclosing photograph of rain water storage tank. | The photograph furnished in the reply is not relevant to the collection pit. It is water reservoir for storing the water received from CSIDC. Drains have been constructed and the same is connected to the small storage tank located within the plant. |
| 7 | No solar rooftop has been observed. Therefore, the proponent is instr | We have installed solar panel on rooftop of canteen building inside the plant premises. We are enclosing photograph of solar panel | After the previous visit of this Office, Project Authority has installed 16KW solar power generation on the rooftop of the building within t |

| S L. N. o. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
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| | ucted install solar rooftop as imposed in the EC and furnish details to this Office (Energy Conservation Measures, Condition no.ii, page no.5). | | he project. Photograph of the same is furnished below. |
| 8 | The proponent has not submitted comprehensive details w.r.t. recycled, reused and solid refractories year-wise. Therefore, the proponent is instructed to furnish details to this Office (Waste Management, Condition no. i & ii, page no.6). | We are submitting year wise solid waste and hazardous waste details. We are enclosing details of solid and hazardous waste | Project Authority in their reply furnished the details of solid waste and hazardous waste generated. However, the data received from the PA along with the reply does not bear signature of the Competent Authority. Project Authority shall ensure compliance regarding safe disposal of solid wastes and sludge as stipulated in the EC condition. |
| 9 | The proponent has not submitted details of fly ash generation, quantity used and quantity sold. Therefore, the proponent is instructed to furnish details to this Office (Waste Management, Condition no.iv, page no.6). | In our unit there is no generation of fly ash. We are using fly ash Bricks/Blocks for construction and repairing activity inside the plant premises. | Project Authority claims that there is no fly ash generation from the Unit. Further, Project Authority declared that they are using fly ash Bricks / Blocks for construction and repairing activities undertaken within the Unit. The condition stipulated in the EC does not specify the generation of fly ash from this Unit and its utilization. |
| 10 | No heat stress analysis reports have been received in this Office. Therefore, the proponent is instructed to submit heat stress analysis report to this Office (H | We have done heat stress analysis of workers. We are enclosing copy of heat stress analysis | Project Authority in their reply furnished the documents in support of their claim that heat stress analysis of workers have been undertaken. |

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| S L. N. o. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
| | Human Health Issues, Condition no. ii, page no.7) | | |
| 11 | The proponent could not show CER activities carried during inspection. Therefore, the proponent is instructed to furnish details to this Office (Corporate Environment Responsibility, Condition no. i, page no.7). | We have done CER activities and spent around 15,71,960 Lakhs Rs as CER cost. Details of CER activities has been incorporated six monthly EC compliance period October 2023 to March 2024 in Annexure-22. We are enclosing copy of CER activity details. | Project Authority in their reply submitted that various activities are undertaken under Corporate Environment Responsibility (CER) and reportedly spent an amount of Rs. 1571960/- . The said declaration made available by the PA does not bear the signature of the Competent Authority. If required, Ministry may seek audited statement from the Project Authority. |
| 12 | No details of action plan for implementing EMP, funds allocation and year-wise progress reports have been received in this office. Therefore, the proponent is instructed to submit action plan for implementing EMP, funds allocation and year-wise progress reports to this Office for further action Office 2. (Corporate Environment Responsibility, Condition no. iv, x, page no.8, 10 & 11) | <p>We have implemented EMP as follows:</p> <ol style="list-style-type: none"> 1. We have implemented Air Pollution control equipment as suction hood, bag filter and Chimney. 2. We have also provided online stack monitoring system 3. We have carrying out third part quarterly monitoring of Stack emission, AAQ, emission, noise etc. 4. Fugitive We have provided closed circuit cooling system. 5. Internal road have been made pucca. 6. Water sprinklers have been provided 7. Greenbelt have been developed. 8. Regular maintained of moving equipment is being done for to control noise. <p>Year-wise EMP activity cost details is submitted</p> | The Project Authority in their reply furnished the activities undertaken as committed and recommendations made in the EIA / EMP report. However, the input furnished is unsigned. |
| 13 | No evidences of six-monthly compliance reports uploaded on the Ministry's website have been received in this Office neither | We have uploaded six-monthly EC compliance period April to September 2023 and October 2023 to March 2024 on the Ministry's website e-PARIVESH. Enclosed Screenshot of PARIVESH | Project Authority in their reply informed that six monthly compliance report has been uploaded on the website of the Company. However, compliance of the same could not be ascertained from the website of the Unit. Project Authority ma |

| S.L.N.o. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
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| | on the company's website. Therefore, the proponent is instructed to comply and furnish details to this Office (Miscellaneous, Condition no.v & vii, page no.9 &.10). | | de available the supporting document regarding submission of six-monthly compliance report on the PARIVESH web portal. |
| 14 | The Proponent has informed that environmental statement shall be submitted to CECB and this office before 30th September every year and displayed on the website. Further it has been informed that financial closure shall be submitted. Therefore, the proponent is instructed to submit copies of environmental statement and financial closure to this Office at the earliest (Miscellaneous, Condition no.viii, page no.9) | We are submitting environment statement and data sheet of year 2024 along with EC compliance period October 2023 to March 2024. We are enclosing copy of Environment Statement Annexure-17 and Data Sheet | Project Authority informed that they are submitting the environment statement to the regulatory Authorities. However, no supporting documents are made available in their reply regarding submission of the same. |
| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | | Compliance and mitigation measure |
| A | Environmental Regime: Air Environment | | |
| I | CECB has already stringent particulate matter emission limit to 50 mg/Nm ³ However units shall adhere to stringent air pollutants standards i.e. 60% of existing flue gas and proves emission limit may be prescribed as 30 mg/Nm ³ for new and expansion/ | At present the company maintaining PM emission level well within 25 mg/Nm ³ , through high efficiency bag filters at SMS (Induction Furnace); and Particulate emission at Billet Reheating furnace is being kept within 50 mg/Nm ³ PM through wet scrubber. However, after proposed expansion project emissi | |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure |
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| I | <p>diversion activities.</p> <p>For expansion or diversification activity, the pollution load shall not exceed the existing load for which consent has been granted. If any industrial group has another units together may be considered.</p> | <p>on level within 30 mg/Nm³ particulate matter emission, will be achieved by improving efficiency of Wet scrubber attached with BRF.</p> <p>No additional time required for the same</p> |
| II | <p>Large and medium red category industries shall install and commission Continuous Emission Monitoring System – CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with CECB/CPCB server.</p> | <p>Online stack monitoring system has been installed for existing facilities, no new stack proposed, online stack monitoring system and connected with CECB/CPCB server from first day of operation.</p> <p>No additional time required for the same</p> |
| III | <p>Units shall adhere to sector specific guidelines / SOP published by CPCB from time to time for effective fugitive emission control.</p> | <p>The company is following all the sector specific guidelines/SOP published by CPCB from time to time for effective emission control. In expansion also we will comply with the same. In this direction we have concreted most of the existing internal roads and storing most of the fragile material under shed. Water sprinkling is being done on most of the dust prone areas. Coal and Iron ore are transported in well covered \ trucks.</p> |
| IV | <p>The raw materials, solid fuels, products (which have tendency to generate dust while handling / transportation) and solid wastes shall be stored in covered shed with arrangement of water sprinkling /dust suppression systems</p> | <p>Storage of all raw material and solid waste (having tendency of dust generation) at covered manner will be provide.</p> <p>Water sprinkling systems will be provided at dust prone zone i.e. road, storage and handling areas.</p> <p>Wheel washing system is also being installed.</p> <p>In addition we have proposed to install mist fogging arrangement for control of fugitive dust 4 No. of HVS monitoring station to effective monitoring of AAQ.</p> <p>It is also proposed to conduct quarterly third party monitoring for fugitive dust.</p> <p>This will be completed along with implementation of expansion activity.</p> |
| V | <p>Conveying System /conveyor belt shall be completely closed. All transfer points/ junction points shall be fitted with dust suppression system followed by bag filter.</p> | <p>The company have provided and will provide enclosures to all the conveyors, The transfer points are/ and will be provided with dust suppression systems.</p> <p>This will be completed along with implementation of expansion activity.</p> <p>The system will be in operation from very first of day of operation of expanded capacity.</p> |
| VI | <p>Vehicle movement areas/ roads within premises shall be made pucca from drain to drain to avoid dusting.</p> | <p>All internal roads have been made pucca for existing's facilities</p> <p>Mist fogging/ water sprinkling arrangement to arrest fugitive emission will be provided.</p> <p>All these facilities will be provided during commissi</p> |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure |
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| | | onning of expansion production capacity of the project We ensure good housekeeping and minimum fugitive dust generation due to transportation. |
| VII | Odour generating units shall take adequate measures to control odour nuisance from the industrial activities which may include measures like - use of masking agent with atomizer system (water curtain) closed/ automatic material handling system containment of the odour vulnerable areas etc. | No odour generation is envisaged in our industry. |
| VIII | Units shall provide wheel wash system at entry and exit point of plant to control wheel generated dust. | The company will implement wheel wash system in entry and exit gate along with implementation of expansion activity. The system will be in operation from very first of day of operation of expanded capacity. |
| IX | Transportation of raw materials, solids fuels, products (which have tendency to generate dust while handling / transportation) and solid wastes shall be transported through mechanically covered / properly covered vehicles | We are complying with this, All the material / waste/fuel are being and will be transported through properly covered (with tarpaulin) vehicles, in expansion also the transportation of raw material/solid waste, fuel with tendency of dust generation will be transported in Properly covered manner. We will ensure minimum dust generation during transportation. |
| X | Units shall not use coal, pet-coke, furnace oil, LSHS as a fuel for new and expansion/ diversification activities. | There is no proposal for use of additional fossil fuel coal, pet-coke, furnace oil in existing or proposed expansion project. The proposed expansion will be based on electrical operated Induction Furnace and Hot charging based Rolling Mill. |
| XI | Units shall adopt sectorial Best Available Technology – BAT (Like use of Induction Furnace, Electric Arc Furnace instead of Cupola Furnace, Caustic Recovery System in Cotton Textile units etc. | Best available technology shall be adopted for doing production through induction furnace and CCM and also adopted hot charged facilities to produce rolled products. |
| XII | Units shall provide green belt of 40% of the total plot area. In case there is restriction of land available within plant premises for 40% green belt development, then the unit shall carry out balance plantation within 05 km radius from its premises to achieve the required plantation of 40%. | The Units is set up in a very old Industrial Plot in which it is difficult to acquire additional land in adjoining plot thus. We have developed 40% green belt (Partly within plant premises + and Partly within 05 km radius from our plant premises) 0.46 Ha (19%) land area under green Belt is within plant remises and additional greenbelt has been developed at khsara No 506/1 (area 0.784 ha.) at village Akoli, P.H. No. 21/93, RNN Dharsiwa, Tahsil an |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure |
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| | | <p>d District- Raipur (CG), which about 3.5 KM at east direction from plant premises. Thus total greenbelt is 1.246 Ha. i.e. 52%.</p> <p>We request you to kindly allow the same. The greenbelt is already completed.</p> |
| XIII | <p>Units situated other than industrial areas shall submit certificate regarding adequacy of roads based on carrying capacity of transportation load on roads from concerning EE, PWD / Concerned Authority of Government of Chhattisgarh.</p> | <p>The Unit is located Industrial area developed by State Govt as Industrial Growth Center and it has quite wide roads and have adequate transportation capacity. However: We will obtain adequacy of road certificate from concerned authority before commissioning of expansion project.</p> |
| B. | <p>Environmental Regime: Water Environmental</p> | |
| XIV | <p>Units shall only use treated effluent for preparation of lime/ neutralization slurry/ other slurry for use in ETP. No fresh water shall be utilized for such purposes.</p> <p>Units shall use treated effluent for make-up of cooling water/process water as maximum as possible.</p> | <ul style="list-style-type: none"> Complying with this and closed circuit cooling system has been implemented for existing facilities. In which water will be regularly re-circulated and reused. Closed Circuit Cooling system will be adopted. Industrial waste water (46 KLD) will be treated in ETP (Cap. 50 KLD) Thus, 40 KLD treated industrial waste water will be generated, which will be used in process. ZLD norms will be complied. Domestic waste water generation (16 KLD) will be treated in STP (Cap. 25 KLD). Treated water will be used for greenbelt development and dust suppression. The STP will be installed along with capacity expansion project. The system will be in operation from very first of day of operation of expanded capacity. |
| XV | <p>Large and Medium Red category industries shall install system for continuous monitoring of effluent quality/quantity as per CPCB guidelines for relevant parameters (like pH Flow Temperature, TOC/COD etc.) and shall be connected to CECB server. Unit shall also install flow meter.</p> | <p>will implement continuous effluent quality and quantity /quality monitoring system before commission of expansion activity.</p> <p>Zero discharge is being followed and will be maintained during expansion project.</p> <p>The system will be in operation from very first of day of operation of expanded capacity.</p> |
| XVI | <p>No ground water withdrawal shall be allowed without permission of CGWA. Units shall use harvested rainwater in the process as maximum as possible.</p> | <p>will comply with this</p> <p>The Total freshwater requirement after expansion will be 425 KLD. The existing and proposed source of water is from Chhattisgarh Ispat Bhumi Limited (Industrial Water supply Network).</p> <p>No ground water abstraction is envisaged in the project.</p> <p>However, the company will recharge rain water within plant premises.</p> |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|--------------|-----------|-----------------------|------------|------------------------|------|-----|------|-------------------|------|-----|------|--------------------|-----|-----|------|-------------------|------|-----|------|--------------|-----|-----|-----|-----------|------|-----|-----|----------------|------|-----|------|---------------------------|--------|-----|-------|------------------------|----------------|--|--------------|--|--|--|
| XVII | <p>Units shall submit calculation regarding total storm water received in the premises potential of rain water harvesting and quantity to be harvested along with details of proposed structures.</p> | <p>Calculation of Runoff and rain water harvesting structures is given below:</p> <p>As per CGWA guidelines on runoff potential and accordance with proposed area statement total runoff potential 14097 KLA.</p> <table border="1"> <thead> <tr> <th>Land use</th><th>Area SQ M</th><th>Coefficient of Runoff</th><th>Runoff SQM</th></tr> </thead> <tbody> <tr> <td>Induction Furnace Area</td><td>5100</td><td>0.9</td><td>5508</td></tr> <tr> <td>Rolling Mill area</td><td>1900</td><td>0.9</td><td>2052</td></tr> <tr> <td>Finished Good Area</td><td>980</td><td>0.9</td><td>1058</td></tr> <tr> <td>Raw Material Yard</td><td>1100</td><td>0.9</td><td>1188</td></tr> <tr> <td>Parking Area</td><td>950</td><td>0.6</td><td>684</td></tr> <tr> <td>Road Area</td><td>1100</td><td>0.4</td><td>528</td></tr> <tr> <td>Greenbelt Area</td><td>9585</td><td>0.2</td><td>2300</td></tr> <tr> <td>Area for Future Expansion</td><td>3242.4</td><td>0.2</td><td>778.2</td></tr> <tr> <td>Total (S q. m.)</td><td>23957.4</td><td></td><td>14097</td></tr> <tr> <td></td><td></td><td> <p>At present we have implemented total 2 Nos. of RWH</p> <p>It is proposed to implement additional six New RWH facilities of Recharge structures.</p> </td></tr> </tbody> </table> | Land use | Area SQ M | Coefficient of Runoff | Runoff SQM | Induction Furnace Area | 5100 | 0.9 | 5508 | Rolling Mill area | 1900 | 0.9 | 2052 | Finished Good Area | 980 | 0.9 | 1058 | Raw Material Yard | 1100 | 0.9 | 1188 | Parking Area | 950 | 0.6 | 684 | Road Area | 1100 | 0.4 | 528 | Greenbelt Area | 9585 | 0.2 | 2300 | Area for Future Expansion | 3242.4 | 0.2 | 778.2 | Total (S q. m.) | 23957.4 | | 14097 | | | <p>At present we have implemented total 2 Nos. of RWH</p> <p>It is proposed to implement additional six New RWH facilities of Recharge structures.</p> |
| Land use | Area SQ M | Coefficient of Runoff | Runoff SQM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Induction Furnace Area | 5100 | 0.9 | 5508 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rolling Mill area | 1900 | 0.9 | 2052 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finished Good Area | 980 | 0.9 | 1058 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Raw Material Yard | 1100 | 0.9 | 1188 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parking Area | 950 | 0.6 | 684 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Road Area | 1100 | 0.4 | 528 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Greenbelt Area | 9585 | 0.2 | 2300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Area for Future Expansion | 3242.4 | 0.2 | 778.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total (S q. m.) | 23957.4 | | 14097 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p>At present we have implemented total 2 Nos. of RWH</p> <p>It is proposed to implement additional six New RWH facilities of Recharge structures.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| XVIII | <p>Units shall ensure recharging of ground water by rainwater harvesting of at-least double the quantity of water use by them. Which shall be done within or outside the premises.</p> | <p>All through we are not proposing to use ground water however We have implemented total 2 Nos. of RWH</p> <p>It is proposed to implement additional six New RWH facilities of Recharge structures.</p> <p>We will also implement additional recharge structures outside the project premises under CER to maximum artificial recharge.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| XIX | <p>Units shall explore Techno-Economic feasibility of Discharge (ZLD) and if feasible, ZLD should be adopted.</p> | <p>Zero discharge is being maintained.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| XX | <p>Units having domestic waste water gener</p> | <p>At present domestic water consumption is within 1</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure |
|--------|--|---|
| | ation more than 10 KLPD shall install STP of adequate capacity and treated effluent shall be reused/recycled within plant premises. | 0 KLD therefore we have implemented Septic tank and soak pit. The domestic water requirement after expansion will be 20KLD. Domestic waste water generation (16 KLD) will be treated in STP (Cap. 25 KLD). Treated water will be used for greenbelt development and dust suppression The STP will be in operation from very first of day of operation of expanded capacity. |
| XXI | Units shall provide green belt of 40% of the total plot area. In case there is restriction of land available within plant premises for 40% green belt development then the unit shall carry out balance plantation within 05 km radius from its premises to achieve the required plantation of 40%. | We have developed 40% green belt (within plant premises + within 05km radius from our plant premises) 0.46 Ha.(19%) is within plant premises and additional greenbelt have been developed at khsara No 5 06/1 (area 0.784 ha.) at village Akoli, P.H. No. 21/9 3, RNN Dharsiwa, Tahsil and District Raipur (CG), which about 3.5 KM at east direction from plant premises. Thus total greenbelt is 1.246 Ha. i.e. 52% We request you to kindly allow the same The development of Greenbelt completed |
| XXII | Development of green belt/ plantation outside project premises in adjacent areas such as avenue plantation, plantation in vacant areas, social forestry, etc. shall be ensured. | We have also done avenue plantation and in expansion also we will maintain the same. |
| XXIII | Units shall strictly carry out handling, Storage and disposal of fly-ash, slag, red-mud, sludge etc. (High Volume- Low Effect Wastes) as per prevailing guidelines and its disposal at designated locations approved by the Board. | complying with this. § In the induction furnace slag is being and will be given to metal recovery units for metal recovery or in case used internally for the same then the ground slag will be used to making bricks. § Refractory waste like silica lining is being and will be sold to the authorized refractory recycling units. § Mill Scale will be sold to Ferro Alloy plant. § Coal Ash generated will be given to fly Ash brick/ block making unit. § Grounded Induction Furnace slag will be given to fly Ash brick/block making unit. § Defective Billets, Miss Roll, End Cutting will be sold or used in own induction furnace. |
| XXIV | Units shall dispose its hazardous wastes through co-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016. Units shall strictly comply with all the measures specified in guidelines for spent solvent management spent acid management and other guidelines / directions published from time to time by CECB/CECB/MoE | agree to it. <ul style="list-style-type: none">● The generated used oil and waste oil estimated to be around 3 KL/year will be given to authorized recycler having authorization from complaint authority.● The lead acid battery or dry battery will be given to authorized recycler having authorization from competent authority. E-waste generated from the plant will be given to authorized recycler having authorization from competent authority. |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure | |
|---------|--|--|--|
| | F&CC. | | |
| XXV | Units shall carry out transportation of hazardous wastes through GPS mounted vehicles only. | agree to it | |
| XXVI | All Environmental Clearance granted units shall submit report of compliance of the conditions of EC every year to the Board prepared by third party. | agree to it | |
| XXVII | New and expansion/ diversification units which will obtain Environmental Clearance shall enhance GER fund allocation to 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 | agree to it. Being it is brownfield project with project cost less than 100 Crores, the CER obligation will be 1% however being located in CPA we herewith propose the CER obligation i.e. @ 2% of project cost. The cost of CER will be Rs. 30.00 Lakhs. | |
| Sl. No. | Particulars | Applicability of OM | Compliance Statement |
| 1. | Land Acquisition | MoEF&CC O.M. dated 07.10.2014 and OM of MoEFCC, New Delhi dtd. 20 th Feb. 2025 | <p>Complied</p> <p>As the proposed expansion will be carried out within the existing plant premises of 2.39 Ha at Plot No. 34-35, Phase-II, Industrial Growth Centre, Siltara, Raipur, Chhattisgarh. No additional land is required.</p> <p>The Copy of Land Documents are already submitted at ministry. Hence, it complies all documentary evidences pertaining to land</p> <p>The above documents confirm the OM dated 07-10-2014 and 20th Feb. 2025</p> |
| 2. | Presence of Stream/Nallah within Site | MoEF&CC Notification, G.S.R. 85(E) dated 30 th January 2025 | <p>Red category, beyond five hundred meters:</p> <p>Complied</p> <p>Complied, this is brownfield project, the unit lies in Siltara Industrial Area, there is no major river in the vicinity of the project site. Nearest water body Kharun River - 4.90 km (West). Hence, the unit not falling in flood plain/HFL/Red line.</p> <p>Complied.</p> <p>Nearest educational institute Jagmohan Lal Higher Secondary School, Sankara - 1.42 km (ESE).</p> <p>Note: ToR was granted to the proposed brownfield project on IA-J-11011/298/2023-IA-II(IND-I) dated 28th November, 2023. before MoEF&CC Notification, G.S.R. 85(E) dated 30th January 2025</p> |

| Sl. N. o. | Particulars | Applicability of OM | Compliance Statement |
|-----------|---|--|---|
| 3. | Validity of ToR, Baseline Data and Public Hearing | F. No. IA3-22/10/2022-IA.III [E 177258] OM dated 08 th June 2022 | <p>Complied.</p> <ul style="list-style-type: none"> Terms of Reference (ToR) Validity: The ToR is valid for a period of four years, from 28/11/2023 to 28/11/2026, in accordance with Office Memorandum F. No. IA3-22/10/2022-IA.III [E 177258] OM dated 08th June 2022 Application for Environmental Clearance (EC): M/s. Agrawal Channel Mills Private Limited has submitted the application for EC on 21/12/2024 via the PARIVESH Portal, which is within the validity period of the ToR. Baseline Environmental Monitoring: Baseline monitoring was conducted during the Winter Season, from Pre-monsoon Season (15th March 2023 - 15th June 2023) As per the provisions of OM dated 08th June 2022, the monitoring data remains valid for use in the EC application. The CECB, Chhattisgarh conducted Public Consultation for the proposed brownfield project of M/s. Agrawal Channel Mills Private Limited on 29/02/2024 at 11:00 AM at Panchayat Bhawan Parisar, Village - Murethi, Siltara (Near Industrial Area), District - Raipur, Chhattisgarh <p>Thus, overall project complies the MoEFCC, New Delhi OM dated 8th June 2022</p> |
| 4. | Certified Compliance Report (CCR) | IA3-22/10/2022-IA.II [E 1772581] dated 08.06.2022 | <p>Complied</p> <p>Present Status:</p> <ul style="list-style-type: none"> ATR Review letter has been received from IRO, Raipur vide F.No. IRO-RPR/ENV/IND/26/2021/13 on d. 21.04.2025 <p>Thus, the project complies with the stipulated requirement.</p> |
| 6. | Critically Polluted Area (CPA) / Severely Polluted Area (SPA) | 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 | <p>Applicable.</p> <p>The project falls within Siltara Industrial Area, a Critically Polluted Area under CEPI - 2018. Accordingly, a point-wise action plan has been prepared under the CEPI Area Management Plan for the proposed expansion.</p> <p>The induction furnace-based existing and proposed expansion is based on clean technology, which is categorized as Orange category by CPCB. PM emission limit is being maintained at 25 mg/Nm³.</p> |

| S.L. | Compliance Condition | Compliance Statement |
|------|--|---|
| 3. | 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 | <p>Complied</p> <p>Complied, this is brownfield project, the unit lies in Siltara Industrial Area, there is no additional land required for the project, there is no major river in the vicinity of the project site. Nearest water body Kharun River - 4.90 km in West Direction from the Project Site. Hence, the unit not falling in flood plain/HFL/Red line.</p> <p>Red category, beyond five hundred meters:</p> <p>Note: ToR was granted to the proposed brownfield project on IA-J-11011/298/2023-IA-II(IND-I) dated 28th November, 2023. before MoEF&CC Notification, G.S.R. 85(E) dated 30th January 2025</p> |
| (ii) | Orange Category | |
| (A) | with effluent generation, beyond seventy-five meters; | Complied, this is brownfield project, the unit lies in Siltara Industrial Area, there is no major river in the vicinity of the project site. Nearest water body Kharun River - 4.90 km (West) . Hence, the unit not falling in flood plain/HFL/Red line. |
| (B) | without effluent generation, beyond thirty meters; | |
| (ii) | green category, beyond thirty meters; | Not Applicable |
| (b) | from the settlement, educational institute, worship place, archaeological monuments, national park, reserve forest, heritage site, in case of industrial unit of | |
| (i) | red category, beyond five hundred meters; | <p>Complied. Nearest educational institute Jagmohan Lal Higher Secondary School, Sankara - 1.42 km (ESE) direction from the project site.</p> |
| (i) | orange category, beyond two hundred meters; | Not Applicable |
| (ii) | green category, beyond one hundred meters | Not Applicable |
| (c) | The State Board shall ensure that other laws, rules, and regulations, and notifications are complied with by the industrial plant | <ul style="list-style-type: none"> · We comply with this condition - Complied |
| (d) | The natural or storm drain passing through the location of industrial unit shall not be disturbed | <ul style="list-style-type: none"> · No Natural or storm drain passing through the plant premises. · Thus, this condition is also complied |

Deliberations by the Committee (EAC during 3rd, 4th & 7th April, 2025)

1. The instant proposal is for expansion of production facilities of Induction Furnace with CCM From Existing 59,500 TPA To 289,400 TPA MS Billets along with total Rerolled Steel Production Capacity Of 272,000 TPA, Out of Which 242,000 TPA Through Hot Charging and 30,000 TPA through existing BRF based Rolling Mill.
2. PP reported that the first Consent to Establish (CTE) and Consent to Operate (CTO) for a 24,000 TPA reheating furnace-based re-rolled steel products unit were granted on 14.08.2006, followed by a separate CTE/CTO on 14.05.2007, for a 14,400 TPA induction furnace to produce MS ingots/billets. The production capacity was later expanded to 28,800 TPA on 10.06.2009. Further expansions included a 24,000 TPA gasifier (2013), a reheating furnace-based rolling mill increased to 30,000 TPA (2015), and a 30,000 TPA re-rolled product unit using an induction furnace and CCM with hot charging direct rolling (2015). Renewals of CTOs were obtained periodically, including a 30,000 TPA billet reheating furnace (2019, valid till 2029) and a 30,000 TPA re-rolled product unit (2019, valid till 2024). For capacity expansion, EC was obtained from SEIAA on 20.09.2021, increasing the induction furnace and CCM-based hot charging direct rolling mill from 30,000 TPA to 59,500 TPA. PP submitted that despite being a B2 category project, it was appraised as B1 due to its location in a Critically Polluted Area for which PP entioned the provisions of OM dated 31-10-2019. A corresponding CTE/CTO was issued on 20.01.2022, and the CTO was renewed on 08.02.2023, valid until 31.12.2025.
3. The EAC observed that the proposal was located in CPA/ SPA, and hence, General Conditions (GC) were attracted, making it a Category-A proposal. Further, OM dated 31-10-2019 had specified that if proposal is falling within 5kms buffer of the CPA/ SPA boundary, then B2 project shall be treated as B1, and B1 shall be treated as A. Further, proposal falling within CPA/ SPA, then irrespective of the category, proposal shall be treaed as Category-A. Hence, the instant proposal was required to be appraised as Category-A. In the event of stay on operation of OM dated 31-10-2019, the proposal would have attracted GC only, and hence, required to be considered as Category-A. However, the SEIAA considered it as B1 and granted EC. It appears that SEIAA has overrun its powers while considering the proposal as per the provisions of EIA Notification 2006. Accordingly, the EAC is of the opinion that the Industry-1 sector may examine this aspect in detail, in consultation with IA Policy Division, and update the EAC on the further course of action.

Recommendations of the Committee (EAC during 3rd, 4th & 7th April, 2025):

| Details of ADS sought by Ministry | | Reply of PP |
|-----------------------------------|---|---|
| S. N o. | ADS generated on dated 15.04.2025 & Submission dt. 29.04.2025 | |
| 1 | <p>EAC observed that the proposal was located in CPA/ SPA, and hence, General C onditions (GC) were attracted, making it a Category-A proposal. Further, OM dat ed 31-10-2019 had specified that if proposal is falling within 5 kms buffer of th e CPA/ SPA boundary, then B2 project s hall be treated as B1, and B1 shall be tr eated as A. Further, proposal falling with in CPA/ SPA, then irrespective of the cat egory, proposal shall be treaed as Category A. Hence, the instant proposal was required to be appraised as Category A. In the event of stay on operation of OM dated 31-10-2019, the proposal would have attracted GC only, and hence, requi red to be considered as Category-A. Ho wever, the SEIAA considered it as B1 an d granted EC.</p> <p>It appears that SEIAA has overrun its po wers while considering the proposal as per the provisions of EIA Notification 20</p> | <p>PP has noted the concern expressed by EAC (Ind. - 1) as re gards the authority of SEIAA/SEAC to appraise our EC appli cation dated 15/07/2021 and EC sanction Dated 20/09/20 21; as the OM dated 31/10/2019 and 30/12/2019 were ke pt under abeyance vide order dated 28/01/2021. In this re spect we request to also consider the letter submitted by us through email on dated 11 April 2025 a copy of which is submitted. in which we have explained that the circular of CPCB vide reference number CPCB.IPC-VIII/CEPI/2019 Dat ed 25.10.2019; was effective on these dates.</p> <p>In response the concern raised by EAC, we have gone thro ugh the documents available in Public domain, and as per v erbal discussion with CECB present officials, we learnt that based on a CPCB Circular dated 25/10/2019; CECB Chhatti sgarh has issued an office order to enforce Environment Management Mechanism for CPA area to grant CTE/CTO f or existing units expansion and for setting up new units; vi de letter no 8175 dated 17/12/2019 (which is enclosed als o with this letter as Annexure II; and relevant part's screen shot is cut pasted below for sake of quick reference). We understand that CPCB letter issued on 25/10/2019 which i s still in force and it has not been withdrawn. As this office</p> |

| Details of ADS sought by Ministry | Reply of PP |
|--|---|
| <p>06. Accordingly, the EAC is of the opinion that the Industry - 1 sector may examine this aspect in detail, in consultation with IA Policy Division, and update the EAC on the further course of action".</p> <p>Hence, we are pleased to submit here with the following clarification inline with ADS raised on our proposal:</p> | <p>order of CECB dated 17/12/2019 is still being enforced on every project in CPA area.</p> <p>As mentioned above it may be noted that the CPCB circular dated 25.10.2019 has not been withdrawn on the day, PP applied for seeking EC as well as on the day EC was granted and also the same is still available at CPCB website and flashing as "New CPCB's Technical Guidelines/SOP" link (https://cpcb.nic.in/openpdffile.php?id=TGFOZXN0RmlsZS9fMTU3ODg5NzI3N19tZWRpYXBob3RvMjkyODkucGRm) of the same. The CPCB circular is also submitted.</p> <p>In this CPCB Circular at para "B" the mechanism to grant of EC in CPA/SPA is stipulated which might have been possibly be the basis for SEIAA/SEAC CG to appraise our application.</p> <p>B. Consideration of proposals for grant of Environmental clearance for new and expansion activities listed in 'Red' and 'Orange' Categories located in Critically Polluted Areas and Severely Polluted areas:</p> <p>i Any project or activity specified in Category B1 will be appraised at the Central Level, if located in whole or in part within 5 km from the boundary of Critically Polluted Areas or Severely Polluted Areas. However, Category B2 projects shall be considered at state level stipulating Environmental Clearance conditions as applicable for the Category 'B1' project/activities.</p> <p>To the best of our understanding and as per the heading of Para B which states that these guidelines are applicable for "consideration of proposals for grant of EC for New and expansion activities listed in Red and Orange Category located in CPA/SPA areas" thus this phrase applies to all projects in CPA /SPA areas as per conditions further stipulated in sub para (i) para (ii.) and para (iii.). The sub para (i.) in first sentence asks to include the B1 projects which are located within 5 KM buffer of CPA area also to be considered at central level, But in second sentence it allows all the B2 Category projects to be considered at State level irrespective of it being located in CPA area and allows to be considered at state level by imposing the conditions which are applicable to Category B1 projects.</p> <p>We feel that the very mention of the II line is to exclude all the B2 Projects from being considered at Central level even if these are located in CPA area.</p> <p>ii. Proposals located in CPAs and SPAs may be examined by the sectoral Expert Appraisal Committee (EAC) during scoping/appraisal based on the CEPI scores of Air/Water/Land Environment as published by CPCB from time to time. In such proposals, appropriate mitigation measures for the environment possessing higher CEPI score may be made by EAC in the form of recommendations/decision. These recommendations may be explicitly mentioned in the Terms of Reference/Environmental Clearance letter and to be ensured by the member secretary concerned.</p> |

| Details of ADS sought by Ministry | Reply of PP |
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| | <p>The sub para (ii) of para "B" in the above CPCB circular applies only on those projects which are to be appraised at Central level. This sub para ii guides on specific issues to be addressed at the time of grant of TOR/EC by the sectoral expert which are adding to the severity of Pollution in the CPA area.</p> <p>This sub para (ii) does not apply on B2 Category projects as the B2 Category projects are not required to be appraised by Central EAC as explained under above sub para (i). B2 Category projects are also exempt from scoping and seeking TOR.</p> <p>The sub para (iii) stipulated the conditions based on which CTE/CTO are to be sanctioned. Accordingly based on this circular itself the CECB has notified the office order dated 17.12.2019 based on sub para (iii). CECB has issued CTE/CTO to our project based on the EC granted to us which is also renewed till date.</p> <ul style="list-style-type: none"> It may also be appreciated that the unit was granted EC based on "No increase in Pollution load" in line with, to comply with NGT concern; additional conditions as applicable to B1 Category projects were imposed. The Induction Furnace based steel making process from Sponge Iron and Pig Iron is considered as Best available (clean) technology (BAT) process as mentioned in the CECB mechanism itself. In addition Hot Charging based steel rolling is also considered as Clean technology which helps in avoiding GHG emissions. <p>Green Belt area: also 40% green Belts area was asked to be planted. Also no additional fossil fuel was permitted as restricted in the CPCB mechanism. as these are mentioned in CPCB/CECB mechanism. The relevant parts of the CPCB circular are reproduced as below for quick reference:</p> <ul style="list-style-type: none"> Units shall adopt sectorial Best Available Technology - BAT (Like use of Induction Furnace, Electric Arc Furnace instead of Cupola Furnace, Caustic Recovery System in Cotton Textile units etc.) Units shall provide green belt of 40% of the total plot area. In case there is restriction of land available within plant premises for 40% green belt development, then the unit shall carry out balance plantation within 05 km radius from its premises to achieve the required plantation of 40%. Development of green belt / plantation outside project premises in adjacent areas such as avenue plantation, plantation in vacant areas, social forestry, etc. shall be ensured. Units shall not use coal, pet-coke, furnace oil, LSHS as a fuel for new and expansion / diversification activities. <p>On going through these issues, it will be found that the SEI AA/SEAC has exercised its best practices as far as their part of project appraisal and decision there to in order to ensure the expansion project capacity would not lead to any additi</p> |

| Details of ADS sought by Ministry | | Reply of PP |
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| | | <p>onal impact on CPA area. Thus SEIAA/SEAC have granted E C based on "No Increase in Pollution Load" i.e. total pollution load for earlier and enhanced capacity remains unchanged by giving stringent EMP conditions as a part of compliance.</p> <p>It may kindly be appreciated that the MoEFCC circular dated 28/01/2021 issued to put in abeyance MoEFCC circular dated 31.10.2019 and 30.12.2019 did not withdraw the CPCB circular dated 25/10/2019. Moreover the abeyance was imposed only for a short while which was later lifted on 25.02.2022 by Hon Supreme Court.</p> <p>As per above we feel that there is no withdrawal or stay or abeyance imposed on CPCB mechanism dated 25.10.2019.</p> <p>o Thus, the spirit of NGT order as well as Supreme court order is well followed and implemented by SEIAA while deciding NIPL project appraisal. Imposing project specific EMP conditions as a part of compliance.</p> <p>It may also be appreciated that the B₂ category was created for simplification of grant of EC to such units which do not have substantial impact on environment and the Notification for this was issued on dated 24/12/2013. Thus, after this notification the appraisal of B2 Category projects in CPA area must be dealt as per CPCB mechanism notified by CPCB on 25/10/2019.</p> <p>PP would also like to submit that we had submitted our EC application under Category B₂ as per prevailing practice for grant of EC to SEIAA CG which has been rigorously been appraised by SEIAA/SEAC in line with the CPCB mechanism and granted the EC by ensuring that the proposed expansion would not lead to additional impact than considered in past for grant of CTE/CTO.</p> <p>It would be evident with the above submission that, our project had been accorded existing EC by SEIAA/SEAC CG (MoEFCC) in accordance with the prevailing regulations available with them.</p> <p>At last, PP would also like to submit that as per EC amendment 7 June 2024 our present capacity for which EC was granted has been exempted from the obligation to seek E C.</p> |
| Details of ADS sought by Ministry | | Reply of PP |
| S. N o. | ADS generated on dated 29.04.2025 & Submission dt. 16.01.2026 | |
| 1 | MoEF&CC, New Delhi, vide its letter File No. IA-J-11011/298/2023-IA-II (IND-II) dated 09 th September, 2025, has sought clarification from SEIAA, Chhattisgarh as to why the proposal for increasing the capacity o | |
| | In this regard, the clarification has been sent to your good office directly and copy is also received by us from SEIAA, Chhattisgarh, vide letter Ref. No. 2804/SEIAA, Chhattisgarh/2025 dated 15.01.2026 (Copy is submitted), The copy of this is submitted for kind per | |

| Details of ADS sought by Ministry | | Reply of PP |
|-----------------------------------|--|--|
| S. N o. | ADS generated on dated 29.04.2025 & Submission dt. 16.01.2026 | |
| | <p>If the Induction Furnace and CCM-based hot charging direct rolling mill from 30,000 TPA to 59,500 TPA was considered and granted Environmental Clearance vide letter No. 1274/EC/RAIPUR/1731 dated 20th September, 2021, despite the fact that the project is located in a Critically Polluted Area (CPA) / Severely Polluted Area (SPA) and, therefore, General Conditions (GC) were applicable, making the proposal a Category-A project under the EIA Notification, 2006. (Copy of Letter is submitted)</p> | <p>ral and further necessary action.</p> |

Written submission by the PP:

| S. L. | Observations by Hon'ble EAC (Ind. - I), MoEFCC, New Delhi | Reply by M/s. Agrawal Channel Mills Pvt. Ltd. | | | | | | | | | | | | | | |
|-------------------------|--|--|-------------------------|-------------------------------------|--------------------------------------|-------------------------|---|------|-----------------|------------------|------------------|-----|------------|------|------|----------------------|
| 1. | PP shall submit revised CER budget. | <p>The CER budget has been revised and enhanced from Rs. 30.00 Lakhs to Rs. 40.00 Lakhs. The detailed break-up of the revised CER budget is submitted and updated at relevant paragraph above.</p> | | | | | | | | | | | | | | |
| 2. | Regarding implementation of proposed ETP and STP with expansion project; | <p>PP undertakes to implement ETP (Capacity: 50 KLD) and STP (Capacity: 20 KLD) based on MBBR technology by August 2026.</p> | | | | | | | | | | | | | | |
| 3. | Compliance of Greenbelt 40% | <p>The green belt details in-compliance to 40% Norm under CPA/SPA are as under:</p> <table border="1"> <thead> <tr> <th>Total Area (Area in Ha)</th> <th>Within Premises (In-situ Greenbelt)</th> <th>Outside Premises (Ex-Situ Greenbelt)</th> <th>Total Greenbelt Planted</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>2.39</td> <td>0.46 (i.e. 19%)</td> <td>0.784 (i.e. 33%)</td> <td>1.246 (i.e. 52%)</td> <td rowspan="2">52%</td> </tr> <tr> <td>Green belt</td> <td>1150</td> <td>1960</td> <td>3110 Nos. of plants.</td> </tr> </tbody> </table> <p>Present Status: As on 1st week of January 2026, Total No. of trees 2994 Nos. developed in 1.226 Ha (within plant premises + outside plant premises). <u>Since the plant is located in the Industrial area developed by State Govt and the land allotment to the unit is very old and no additional land is available for further greenbelt development within the premises.</u></p> <p>The Chhattisgarh State Environment conservation Board in compliance to the NGT order of O.A. No. 1038/2018 dated 10/07/2019 and in accordance with the OM dated 23 August 2019". Issued a environment safeguard mechanism issued vide its letter no 8175/HO/CECB/2019 NAVA RAIPUR ATAL NAGAR DATED 17/12/209 has notified that existing units can take up the green Belt pl</p> | Total Area (Area in Ha) | Within Premises (In-situ Greenbelt) | Outside Premises (Ex-Situ Greenbelt) | Total Greenbelt Planted | % | 2.39 | 0.46 (i.e. 19%) | 0.784 (i.e. 33%) | 1.246 (i.e. 52%) | 52% | Green belt | 1150 | 1960 | 3110 Nos. of plants. |
| Total Area (Area in Ha) | Within Premises (In-situ Greenbelt) | Outside Premises (Ex-Situ Greenbelt) | Total Greenbelt Planted | % | | | | | | | | | | | | |
| 2.39 | 0.46 (i.e. 19%) | 0.784 (i.e. 33%) | 1.246 (i.e. 52%) | 52% | | | | | | | | | | | | |
| Green belt | 1150 | 1960 | 3110 Nos. of plants. | | | | | | | | | | | | | |

| S. L. | Observations by Hon'ble EAC (Ind. - I), MoEFCC, New Delhi | Reply by M/s. Agrawal Channel Mills Pvt. Ltd. |
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| | | <p>anation within 5 Kili Meter radius. (Copy of the mechanism submitted by CEC B is based on NGT order and CPCB Mechanism. (copy of CECB Mechanism dated 17/12/2019 is enclosed as Annexure II),</p> <p>In addition to this the MOEFCC- OM dated 29 October 2025 vide file no F.N o. IA3-22/14/2025-IA.III (E- 275538) has issued the similar guidelines based on the NGT order and mechanism . Relevant abstract of this OM are reproduced as below:</p> <p>D. Green belt norms in case of Industrial Estates and Individual Industrial units in Critically Polluted Areas (CPA) and Severely Polluted Areas: A minimum o f 40% green belt shall be developed in red and orange category units located i n Critically Polluted Areas (CPA) and Severely Polluted Areas (SPA), in accord ance with the Mechanism for Environmental Management of Critically and Se verely Polluted Areas and in compliance with the Hon'ble NGT order dated 2 3.08.2019 in the matter of O.A. No. 1038/2018 and in accordance with the O M dated 31st October 2019".</p> <p>C. Generic directions with regard to developing green belt / green cover: (Ref. OM 29 October 2025)</p> <p>i. In the case of brownfield projects applying for modernization / expansion / change in product mix of the project within industrial estates or individual ind ustrial units, the Expert Appraisal Committees will determine the minimum gr een belt criteria / provision based on on-site conditions and prescribe require ments on a case-by-case basis.</p> <p>ii. The aforementioned green belt criteria shall be applicable prospectively to the applications received for the grant of EC and also for the applications whi ch are currently under consideration for grant of EC.</p> <p>iii. In addition to the minimum green belt criteria suggested above, the un its may take up ex-situ plantation subject to availability of land, in collab oration with State Forest Departments, Urban Local Bodies, or other gov ernment agencies in schemes such as Nagar Van, Compensatory Afforest ation programs, etc.</p> <p>Thus, Additional greenbelt on 0.784 hect (33% area of the project area) land has been developed outside the plant premises on land owned by the Project Proponent. Relevant land ownership documents submitted.</p> <p>Thus, we request the Hon'ble Committee to consider ex-situ greenbelt (whi ch is located within the CPA area in 3.5 KM in East direction) in complianc e with the mechanism prescribed under the CPA/SPA, as per OM dated 24.1 0.2019 and OM dtd. 29.10.2025. The entire land is owned by the company it self and has been dedicated for green belt and the details of the same are als o submitted from time to state Pollution control board and IRO Raipur (MoE FCC) .</p> |
| 4 | Submission of MoE FCC, New Delhi Letter regarding the appraisal B2 Category projects in CPA area by SEIAA. | MoEFCC's opinion letter dtd. 29 th Nov. 2023 (F. No. J-3012-12-2013-IA-II(I)-PT) issued to SEIAA CG clarifying that B ₂ category project located in CPA/S PA areas shall be appraised at state level (SEIAA/SEAC) has been submitte d. |

3.1.3. Deliberations by the committee in previous meetings

Date of EAC 1 :07/04/2025

Deliberations of EAC 1 :

Deliberations by the Committee

1. The instant proposal is for expansion of production facilities of Induction Furnace with CCM From Existing 59,500 TPA To 289,400 TPA MS Billets along with total Rerolled Steel Production Capacity Of 272,000 TPA, Out of Which 242,000 TPA Through Hot Charging and 30,000 TPA through existing BRF based Rolling Mill.
2. PP reported that the first Consent to Establish (CTE) and Consent to Operate (CTO) for a 24,000 TPA reheating furnace-based re-rolled steel products unit were granted on 14.08.2006, followed by a separate CTE/CTO on 14.05.2007, for a 14,400 TPA induction furnace to produce MS ingots/billets. The production capacity was later expanded to 28,800 TPA on 10.06.2009. Further expansions included a 24,000 TPA gasifier (2013), a reheating furnace-based rolling mill increased to 30,000 TPA (2015), and a 30,000 TPA re-rolled product unit using an induction furnace and CCM with hot charging direct rolling (2015). Renewals of CTOs were obtained periodically, including a 30,000 TPA billet reheating furnace (2019, valid till 2029) and a 30,000 TPA re-rolled product unit (2019, valid till 2024). For capacity expansion, EC was obtained from SEIAA on 20.09.2021, increasing the induction furnace and CCM-based hot charging direct rolling mill from 30,000 TPA to 59,500 TPA. PP submitted that that despite being a B2 category project, it was appraised as B1 due to its location in a Critically Polluted Area for which PP entioned the provisions of OM dated 31-10-2019. A corresponding CTE/CTO was issued on 20.01.2022, and the CTO was renewed on 08.02.2023, valid until 31.12.2025.
3. The EAC observed that the proposal was located in CPA/ SPA, and hence, General Conditions (GC) were attracted, making it a Category-A proposal. Further, OM dated 31-10-2019 had specified that if proposal is falling within 5kms buffer of the CPA/ SPA boundary, then B2 project shall be treated as B1, and B1 shall be treated as A. Further, proposal falling within CPA/ SPA, then irrespective of the category, proposal shall be treaed as Category-A. Hence, the instant proposal was required to be appraised as Category-A. In the event of stay on operation of OM dated 31-10-2019, the proposal would have attracted GC only, and hence, required to be considered as Category-A. However, the SEIAA considered it as B1 and granted EC. It appears that SEIAA has overrun its powers while considering the proposal as per the provisions of EIA Notification 2006. Accordingly, the EAC is of the opinion that the Industry-1 sector may examine this aspect in detail, in consultation with IA Policy Division, and update the EAC on the further course of action.

Recommendations of the Committee:

3.1.4. Deliberations by the EAC in current meetings

Deliberations by the Committee

1. The instant proposal is for expansion of production facilities of Induction Furnace with CCM From Existing 59,500 TPA To 289,400 TPA MS Billets along with total Rerolled Steel Production Capacity Of 272,000 TPA, Out of Which 242,000 TPA Through Hot Charging and 30,000 TPA through existing BRF based Rolling Mill.
2. The first Consent to Establish (CTE) and Consent to Operate (CTO) were granted on August 14, 2006, for a 24,000 TPA reheating furnace-based re-rolled steel products unit, as per CECB letter no. 1792 and 1794/RO/TS/CECB/2006. Subsequently, a separate CTE/CTO was issued on May 14, 2007, for a 14,400 TPA induction furnace (I.F.) to produce MS ingots/billets (CECB letter no. 1338 and 1340/RO/TS/CECB/2007). Later, on June 10, 2009, the production capacity was expanded to 28,800 TPA, as per CECB letter no. 1943 and 1944/RO/TS/CECB/2009. Further, CTE were taken for expansion of 24,000 TPA gasifier on October 17, 2013 (CECB letter no. 1523 and 1524/RO/TS/CECB/2013). On June 6, 2015, another CTE/CTO was issued for the expansion of the reheating furnace-based rolling mill to 30,000 TPA (CECB letter no. 656/RO/TS/CECB/2015). On June 10, 2015, a CTE/CTO was also granted for a 30,000 TPA re-rolled product unit using an induction furnace and a continuous casting machine (CCM) with hot charging-based direct rolling (CECB letter no. 672 and 673/RO/TS/CECB/2015). At that point, rolling mills were not considered under the purview of the Environmental Clearance (EC) requirement of the EIA Notification 2006. Renewals of these consents were obtained time to time. On May 29, 2019, the renewal of CTO for a 30,000 TPA billet reheating furnace (BRF) rolling mill was approved, with validity extended until May 31, 2029 (CECB letter no.

927/RO/TS/CECB/2019). Similarly, the renewal of the CTO for a 30,000 TPA re-rolled product unit using induction furnace and CCM-based hot charging direct rolling mill was granted on June 14, 2019, valid until May 31, 2024 (CECB letter no. 1126/RO/TS/CECB/2019). For capacity expansion, an Environmental Clearance (EC) was obtained from SEIAA on September 20, 2021, for increasing the capacity of the induction furnace and CCM-based hot charging direct rolling mill from 30,000 TPA to 59,500 TPA (CG SEIAA letter no. 1274/EC/RAIPUR/1731). Although the project fell under the B2 category due to the induction furnace capacity being below 60,000 TPA and its location within an industrial area, it was appraised as a B1 category project due to its presence in a Critically Polluted Area (CPA) as per CPCB guidelines. Accordingly, on January 20, 2022, a CTE/CTO was granted for this expansion, aligning with the EC (CECB letter no. 3227/RO/TS/CECB/2022). On February 8, 2023, the CTO was renewed for the 59,500 TPA re-rolled product unit through a 10 MT x 4 Nos induction furnace, valid till December 31, 2025 (CECB letter no. 4711/RO/TS/CECB/2023).

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 under Para 7(ii)(a), and the expansion is proposed within the existing premises. 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 Committee noted that pursuant to the observations made during earlier deliberations and the ADS raised regarding the applicability of General Conditions and the authority of SEIAA in grant of Environmental Clearance dated 20th September, 2021, the Ministry sought clarification from SEIAA, Chhattisgarh in the matter. The Committee further noted that SEIAA, Chhattisgarh submitted its clarification explaining the basis of appraisal and grant of the said Environmental Clearance, and that the Project Proponent also furnished its detailed reply in response to the ADS raised. The Committee took note of the clarifications and submissions placed on record for further consideration of the proposal.
9. The PP submitted that the total project area is 2.39 ha, comprising entirely Government leased industrial land. The land was developed as an industrial area by the Government of Chhattisgarh prior to the EIA Notification, 2006, is duly diverted for industrial use, and is under possession of the project proponent, where the existing plant is operational. The proposed expansion is confined within the same 2.39 ha of existing industrial land and does not involve any additional land acquisition or diversion. The Committee further noted that the existing green belt area of 0.46 ha (19%) within the project premises shall remain unchanged, and an additional green belt area of 0.784 ha at Village Akoli, Raipur District, located about 3.5 km east of the project site, has already been developed.
10. The EAC deliberated on the action plan in compliance to conditions as per CEPI Guidelines due to project area in CPA and opined that PP shall strictly comply with the action plan.
11. Siltara is at a distance of 0.98 Km (E) 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.

12. 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.
13. There are 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.
14. Existing Water requirement was 32 m³/day, which was obtained from surface water. The water requirement for the proposed expansion project is estimated as 425 m³ /day, which will be obtained from the surface water. The EAC opined that the PP shall secure the required approval from the appropriate authority.
15. 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 beyond standards. The EAC deliberated on the detailed justification provided by the project proponent. The EAC opined that a project specific AAQ plan shall be prepared and implemented.
16. It is reported that five species of fauna were documented which belongs to schedule I as per Wildlife Protection Act, 1972 (Amendment 2023). Conservation Plan is submitted for approval at Principal Chief Conservator of Forest (WL), Raipur by Project Proponent vide Ltr. No ACML/2024-25/45 Dated 01.01.2024. 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. The Committee noted the submission of the Project Proponent that against a total project area of 2.39 ha, a cumulative green belt of 1.246 ha (about 52%) has been developed, comprising 0.46 ha (about 19%) within the plant premises and 0.784 ha (about 33%) as plantation outside the premises, with a total of 3,110 saplings planted. As per the PP, 2,994 trees have been established over 1.226 ha within and outside the plant premises as on the first week of January 2026. The Committee further noted the PP's submission that the unit is located in an old industrial area developed by the State Government and that no additional land is available within the premises for further in-situ green belt development. The Committee also noted the PP's contention that the additional plantation has been undertaken on land owned by the PP at a distance of about 3.5 km from the project site, citing provisions of the CECB mechanism dated 17.12.2019 and the MoEF&CC Office Memorandum dated 29th October, 2025, and that relevant land ownership and plantation details have been submitted to the State Pollution Control Board and IRO, Raipur. The EAC deliberated on the greenbelt action plan and is of the opinion that greenbelt shall be developed and maintained in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025 and as per CEPI Guidelines.
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 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.**
22. The EAC also deliberated on other points in written submission of the project proponent and found it

satisfactory.

23. 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.
24. 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.
25. 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.
26. As committed, PP shall implement ETP (Capacity: 50 KLD) and STP (Capacity: 20 KLD) based on MBBR technology by August 2026.

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 | |
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| 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. | In pursuance to MoEF&CC OMs 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. |
| 5. | Siltara village at distance of 0.98 Km in East direction 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 |

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| | around the plant area to reduce the dust pollution. 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. | There are 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. |
| 8. | The existing water requirement was 32 m3/day and the proposed water requirement for the expansion project is estimated as 2965 m3/day, which will be obtained from the Surface water. PP shall secure the required approval from the appropriate authority. |
| 9. | 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. As committed and in compliance to CEPI Guidelines, PP shall develop and maintain the greenbelt within a period of 1 year. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC. |
| 10. | 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) |
| 11. | 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 approx. Rs. 0.4 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. |
| 12. | 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. |
| 13. | PP shall Install CO sensors with alarms at strategic locations in the Plant. |
| 14. | 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. |

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| 1.5. | 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 |
| 1.6. | 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. |
| 1.7. | 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

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| 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 |

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| | 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 30 mg/Nm ³ 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. |
| 17. | 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. |
| 18. | Low NO _x Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG. |

Water Quality Monitoring and Preservation

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| 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. | 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. |

Noise Monitoring and Prevention

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| 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

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| 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 Reheating Furnace

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| 1. | The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces. |
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| 2. | Practice hot charging of slabs and billets/blooms as far as possible. |
| 3. | Ensure installation of regenerative type burners on all reheating furnaces |
| 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 monitorable 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. |

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Manufacturing of Ferro Alloys, Metals, Tungsten Salts & oxides by M/s. Fonsmet Materials Pvt. Ltd. Address - Survey No. 25/3, Village Isambe, Taluka -Khalapur, District Raigad , State - Maharashtra, Pin code - 410 220 New by FONSMET MATERIALS PRIVATE LIMITED located at RAIGAD,MAHARASHTRA

Proposal For

Fresh EC

| Proposal No | File No | Submission Date | Activity Sub-Activity (Schedule Item) |
|--|--------------------------------------|-----------------|---|
| IA/MH/IND1/540731/2026 | IA-J-11011/348/2022-I A-II(IND-I) | 10/01/2026 | Metallurgical Industries (ferrous and non ferrous) Primary Metallurgical Industry - All Projects (3(a)) |

3.2.2. Project Salient Features

[Proposal no.: IA/MH/IND1/540731/2026: File No. IA-J-11011/348/2022-IA-II (IND-I)]
[Consultant: Aditya Environmental Services Pvt. Ltd.; Valid upto: 01.05.2028]

| Date of application | Consideration | Details | Date of accord | ToR Validity |
|--|---------------|-------------------------|---------------------|--------------|
| Phase 1 | | | | |
| Ferro Alloys | | | | |
| Particulars | Sr. No | Product Name | Quantity (TPA) Max. | |
| Any product combination from Sr. No. 1 to 9. Based on the orders Not exceeding 1200 TPA collective & also not exceeding their individual capacities. | 1 | Low carbon Ferro Chrome | 1200 | |
| | 2 | Ferro Manganese | 1200 | |
| | 3 | Ferro Tungsten | 600 | |
| | 4 | Ferro Molybdenum | 600 | |
| | 5 | Ferro Titanium | 600 | |
| | 6 | Ferro Vanadium | 600 | |
| | 7 | Ferro Niobium | 600 | |
| | 8 | Ferro Nickel | 600 | |
| | 9 | Ferro Cobalt | 600 | |
| Metal Ingots & Powder from Scrap | | | | |
| Melting and refining Aluminum & Copper scrap | 1 | Aluminum Ingots/ Powder | 1200 | |

| | | | | |
|--|-------------|--|----------------------|---------------------|
| | | 2 | Copper Ingots/Powder | 1200 |
| Metals Reduction by Aluminum | | | | |
| Any combinations of products from Sr. no. 1 to 8. Based on orders Not exceeding 240 TPA & also not exceeding their individual capacities | 1 | Tantalum | 240 | |
| | 2 | Niobium | 240 | |
| | 3 | Nickel | 240 | |
| | 4 | Cobalt | 240 | |
| | 5 | Tungsten | 240 | |
| | 6 | Chromium | 240 | |
| | 7 | Vanadium | 240 | |
| | 8 | Molybdenum | 240 | |
| Metals By Carbon Reduction | | | | |
| Producing both Tin AND Copper | 1 | Tin | 240 | |
| | 2 | Copper | 240 | |
| Phase - 2 | | | | |
| Metals Reduction By Magnesium | | | | |
| | Particulars | Sr.No. | Product Name | Quantity (TPA) Max. |
| Any combinations of products from Sr no. 1 to 3. Based on orders Not exceeding 240 TPA. | 1 | Tungsten | 240 | |
| | 2 | Tantalum | 240 | |
| | 3 | Niobium | 240 | |
| Phase 3 | | | | |
| Tungsten Salts & Oxides | | | | |
| Any combination of products fro | 1 | Sodium Tungstate [Na ₂ WO ₄ . 2H ₂ O] | 251 | |

| | | | | |
|---|---|--|-------|--|
| <p>Item Sr. no. 1 to 4 Not exceeding 1 80 TPA (WO₃ basis) & also not exceeding their individual capacity Note – Basis for tungsten salts & oxides is the WO₃ content present in them.</p> | 2 | Ammonium tungstate [(NH ₄) ₁₀ (H ₂ WO ₄) ₂ .4H ₂ O] | 198.6 | |
| | 3 | Tungsten Trioxide [WO ₃] | 180 | |
| | 4 | Tungstic acid [H ₂ WO ₄] | 194 | |
| Sulfates of Copper, Nickel and Cobalt | | | | |
| <p>Producing Copper sulfate, nickel sulfate and cobalt sulfate Each product having individual capacity of 300 TPA Max.</p> | 1 | Copper Sulfate [CuSO ₄ .nH ₂ O], where n = 0 to 5] Basis- CuSO ₄ .5H ₂ O | 300 | |
| | | Nickel Sulfate [NiSO ₄ .nH ₂ O], where n= 0 to 7] Basis- NiSO ₄ .7H ₂ O | | |
| | 2 | Cobalt Sulfate [CoSO ₄ .nH ₂ O], where n= 0 to 7] Basis- CoSO ₄ .7H ₂ O | 300 | |
| | | | | |
| | 3 | | 300 | |
| | | | | |

3.2.3. Deliberations by the committee in previous meetings

N/A

3.2.4. Deliberations by the EAC in current meetings

Deliberations by the Committee

- i. The Committee deliberated upon the proposal for grant of Environmental Clearance (EC) for manufacturing of ferro alloys, metals, tungsten salts and oxides by M/s Fonsmet Materials Pvt. Ltd. and noted that the project has been submitted under Schedule Item 3(a) – Metallurgical industries (ferrous and non-ferrous) of the EIA Notification, 2006, under Category “A”, for appraisal at the Central level. The Committee examined the scope of the proposed project and observed that, in addition to certain ferro-alloy products, the proposal involves manufacture of non-ferrous metals such as tungsten, tantalum, niobium, nickel, cobalt, aluminium and copper; production of ferro-alloys of non-ferrous elements; and chemical processing of tungsten compounds, including tungsten salts and oxides, as

well as metal sulfates of copper, nickel and cobalt.

ii. The Committee noted that the EIA/EMP report for the proposal has been prepared and presented by M/s Aditya Environmental Services Pvt. Ltd., which is accredited by NABET for Sector 3(a) – Metallurgical industries (ferrous only). The Committee observed that the accreditation held by the consultant does not cover non-ferrous metallurgical processes and chemical processing of non-ferrous metal compounds, which constitute a substantial and integral part of the proposed project activities.

iii. The Committee expressed concern that preparation of the EIA/EMP for a project involving extensive non-ferrous metallurgical operations and tungsten chemical processing by a consultant accredited only for ferrous metallurgical industries raises issues regarding the technical adequacy, sectoral competence, and regulatory conformity of the EIA/EMP report. The Committee was of the view that, as per the applicable accreditation framework and appraisal procedures, an EIA/EMP report must be prepared and presented by a consultant duly accredited for the relevant sector(s) corresponding to the complete scope of the project. In the absence of appropriate accreditation, the Committee is unable to rely upon or appraise the EIA/EMP report submitted for the instant proposal.

iv. In view of the above, the Committee opined that appraisal of the proposal in its present form is procedurally untenable, and the proposal cannot be considered further at this stage. Accordingly, the Committee decided not to appraise the proposal and recommended that the proposal be returned, with advice to the Project Proponent to engage a suitably accredited consultant, complete all procedural formalities as per the EIA Notification, 2006, and submit a fresh proposal for consideration.

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 Ferro Alloy Plant By Installing 1 X 6.5 MVA Submerged Arc Furnace At Village- Banshgora, P.O.: Sarpi, P.S. Laudoha, Faridpur, Durgapur : 713363, Dist.: Paschim Burdwan, West Bengal by M/s Maa Vaishnavi Chemical Industries Pvt. Ltd. by maa vaishnavi chemical industries private limited located at PASCHIM BARDHAMAN, WEST BENGAL

| Proposal For | | Fresh ToR | |
|--|-----------------------------------|-----------------|--|
| Proposal No | File No | Submission Date | Activity Sub-Activity (Schedule Item) |
| IA/WB/IND1/560480/2026 | IA-J-11011/21/2026-IA-II (Ind-II) | 02/01/2026 | Metallurgical Industries (ferrous and non ferrous) Primary Metallurgical Industry - All Projects (3(a)) |

3.3.2. Project Salient Features

[Proposal no.: IA/WB/IND1/560480/2026: File No. IA-J-11011/21/2026-IA-II (Ind-II)]
[Consultant: Acro Design and Engineering; Valid upto: 30.01.2027]

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

- i. The Committee deliberated upon the proposal submitted by M/s Maa Vaishnavi Chemical Industries Pvt. Ltd. for grant of Terms of Reference (ToR) for expansion of an existing ferro-alloy plant by installation of 1 × 6.5 MVA Submerged Arc Furnace, in addition to the existing 1 × 3.5 MVA Electric Submerged Arc Furnace, and noted that the project falls under Schedule Item 3(a) – Metallurgical industries (ferrous or non-ferrous) of the EIA Notification, 2006, under Category "A", for appraisal at the Central level.
- ii. The Committee noted that the proposal has been presented through M/s Acro Design and Engineering, which is accredited by NABET for Sector 3(a) – Metallurgical industries (secondary ferrous only) and for Category-B projects only. The Committee observed that the proposed expansion involves installation of a submerged arc furnace for ferro-alloy production, which constitutes primary metallurgical activity, and the proposal is categorised as Category-A, thereby falling outside the scope of the consultant's accreditation.
- iii. The Committee further noted that, although engagement of an EIA consultant is not mandatory at the ToR stage, once a Project Proponent chooses to engage a consultant and the proposal is presented through such consultant, the consultant must be duly accredited for the relevant sector and category of the project. In the present case, the consultant engaged is not competent to present or represent a Category-A primary metallurgical project before the Committee.
- iv. The Committee was of the view that consideration of the proposal in its present form, as presented by a consultant lacking appropriate sectoral and category-specific accreditation, is procedurally not in order. Accordingly, the Committee decided that the proposal cannot be appraised further at this stage. In view of the above, the Committee decided to return the proposal, with advice to the Project Proponent to either submit the proposal afresh without engaging a consultant, or to engage a suitably accredited consultant competent for Category-A metallurgical industries, and re-submit the proposal in accordance with the provisions of the EIA Notification, 2006.

Recommendations of the Committee

3.3.5. Recommendation of EAC

Returned in present form

3.4. Agenda Item No 4:

3.4.1. Details of the proposal

Amendment in Existing 1.2 MTPA Pellet Plant with Installation of PGP (Producer Gas Plant) for Predominant Substitution of Existing Fuel - Furnace Oil by Producer Gas at Village Kandra, Kandra-Chowka Road, District Saraikela Kharsawan, Jharkhand by AMALGAM STEEL PRIVATE LIMITED located at SARAIKELA KHARSAWAN, JHARKHAND

| Proposal For | | Amendment in EC | |
|----------------------------|---------------------------|-----------------|--|
| Proposal No | File No | Submission Date | Activity Sub-Activity (Schedule Item) |
| IA/JH/IND1/552299/202 6 | J-11011/717/2009-IA-II(I) | 06/01/2026 | Pellet Plant All Standalone pellet plant (2(c)) |

3.4.2. Project Salient Features

[Proposal no.: IA/JH/IND1/552299/2026: File No. IA-J-11011/717/2009-IA-II (I)]
[Consultant: Pollution and Ecology Control Services; Valid upto: 03.01.2027]

3.4.3. Deliberations by the committee in previous meetings

N/A

3.4.4. Deliberations by the EAC in current meetings

3.4.5. Recommendation of EAC

Deferred for PP not attending the meeting

4. Any Other Item(s)

4.1.1. Details of the proposal

Deliberation on issue related to discrepancy in survey number 118, 136 &137 between M/s. MSPL (vide F. No. IA-J-11011/329/2021-IA-II (IND-I) dated 21.11.2023) and M/s. RPCL (vide F. No. IA-J-11011/39/2021-IA-II (IND-I) dated 30.01.2023) located at N/A,N/A,N/A

| | |
|--------------|---------|
| Proposal For | N/A |
| Proposal No | File No |
| N/A | N/A |

4.1.2. Project Salient Features

Agenda No. 20.6

- o The 30 days period from the date of publication of EAC minutes was over on 24.11.2025, and till now RCPL has not submitted an application on PARIVESH portal, as required to comply with the EAC recommendations
- o MSPL had approached KSPCB, Bangalore as per EAC recommendation, and requested for inclusion of said survey numbers (Nos: 118,136 & 137) in the CTE/ CFE; however, KSPCB has asked for submission of amended EC of RCPL, excluding the Survey numbers: 118, 136 & 137. Accordingly, amendment to the EC of RCPL may be issued deleting the Survey Nos: 118,136 & 137, with copy to KSPCB, Bangalore, enabling completion of balance project work.
- o MSPL informed that there are no active cases pending as on date with respect to Sy. Nos 118,136 &137 Somalapur Village, Sandur Taluk, Ballari District between MSPL Limited and RCPL, in any courts.
- o The Writ Petition (WP NO. 106737/2025) filed by MSPL challenging the issuance of notices under Sec.28 (2) KIAD Act by KIADB has been disposed of on 31.10.2025 wherein KIADB accepted that the same have been issued by mistake.
- o MSPL has received an amendment from the State Environment Impact Assessment Authority (SEIAA) on 06.11.2025 which pertains exclusively to DHPC and transportation of iron ore, and has no connection with Survey Numbers 118, 136, and 137 of Somalapur Village, Sandur Taluk, Karnataka.
- o MSPL submitted the Record of Rights (ROR) for the Sy. No. 118, 136 & 137, Somalapura Village, Sandur

4.1.3. Deliberations by the EAC in current meetings

Recommendations

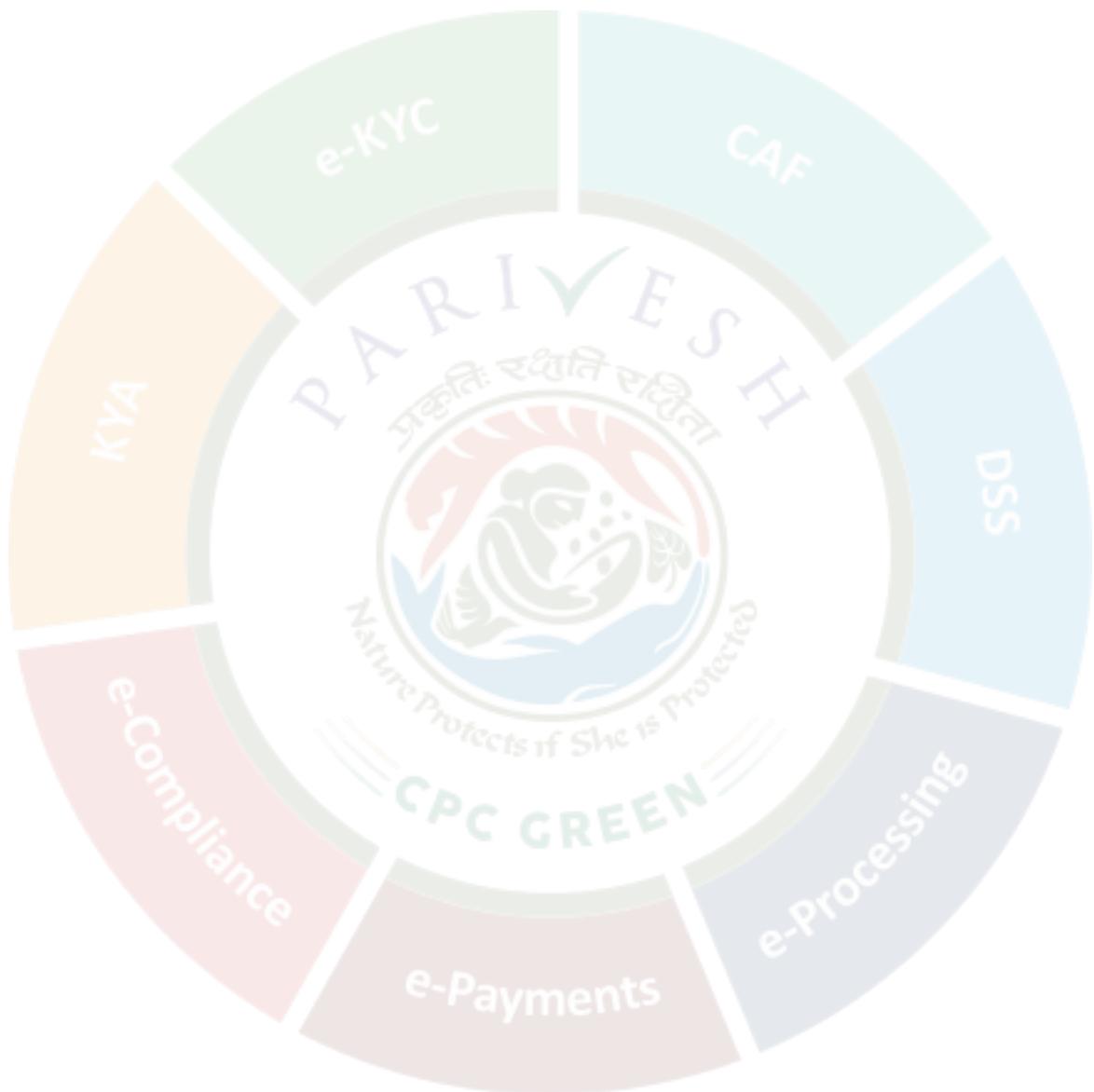
4.1.4. Recommendation of EAC

Recommended

5. List of Attendees

| Sr. N o. | 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 | Member (EAC) | pra*****@nic.in | Absent |
| 12 | Dr. Sandip Mukhopadhyay | Member (EAC) | san*****@gov.in | Absent |
| 13 | Dr. B. Ravichandra | Member (| rav*****@gov.in | Absent on 22.1.2026 & Present |

| | | | | |
|--|---|------|--|---------------|
| | n | EAC) | | on 23.01.2026 |
|--|---|------|--|---------------|



ANNEXURE-X

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: 02-02-2026

Zero Draft sent to EAC: 30-01-2026

Approval by Chairman: 02-02-2026

Uploading on PARIVESH: 02-02-2026

MINUTES OF THE 20TH EXPERT APPRAISAL COMMITTEE (INDUSTRY-1 SECTOR) MEETING HELD ON 22ND – 23RD 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 22, 2026 [THURSDAY]

(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 19th meeting of the EAC for Industry-I sector held on 9th January, 2026 at MoEF&CC through VC Mode.

The EAC meeting for Industry-I sector was held on 9th January, 2026 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 19th meeting of the EAC for Industry-I sector held on 9th January, 2026 conducted through VC Mode, and noted that one request was received for modification/ factual correction in the minutes of the 19th EAC meeting, as mentioned below:

Agenda No. 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 & F. No. IA-J-11011/240/2023-IA-II (IND-I)]
[Consultant: Perfect Enviro Solutions Pvt. Ltd.; Valid upto: 02.11.2030]**

PP vide email dated 20-01-2026 requested for *replacement of hazardous waste quantification and disposal related table at Para 3.2.2 'Project Salient features'* as the the information related to MEE salts was not captured therein due to incomplete submission by PP/ Consultant. The EAC considered the PP's request and noted that the issue is of factual correction in nature, and may be updated. Accordingly, the updated table to be replaced in MoM of Agenda 19.3, at relevant Para mentioned above, is placed below:

| S. No. | Name of Waste | Souce | Category as per HWM Rules, 2016 | Quantity (TPA) | Disposal method |
|--------|---------------------------------|---------|---------------------------------|-----------------------|--|
| 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 | |

| S. No. | Name of Waste | Souce | Category as per HWM Rules, 2016 | Quantity (TPA) | Disposal method |
|--------|---------------------------------------|--------------------------|---------------------------------|----------------|---|
| 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. |
| 8 | Discarded Containers/ Barrels/ Liners | Storage of Raw Materials | 33.1 | 200 Nos./ Year | Collection, Storage, Transportation and disposal by send to authorized recyclers. |
| 9 | Resin | Water treatment | 35.2 | 0.5 | Collection, Storage, Transportation and disposal to TSDF. |
| 10 | ETP Sludge | ETP | 35.3 | 1200 | Collection, Storage, Transportation and disposal to TSDF. |
| 11 | MEE Salt | MEE | 35.3 | 15 | Collection, Storage, Transportation and disposal to TSDF. |

(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 20th 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. 20.1

20.1 Expansion of Cement Plant Capacity Increase of Production Clinker: From 4.685 MTPA To 5.922 MTPA Cement: From 3.65 MTPA To 5.11 MTPA WHRB From 27 MW To 28.5 MW by M/s. The Ramco Cement, located at Kumaraswamy Raja Nagar, Jayanthipuram Village Of Jaggaiahpet Mandal, Ntr District, Andhra Pradesh-Consideration of EC.

[Proposal no.: IA/AP/IND1/556936/2026: File No. IA-J-11011/403/2006-IA-II (I)]
[Consultant: B. S. Envi-Tech Pvt Ltd; Valid upto: 15.05.2026]

20.1.1 M/s. The Ramco Cements Limited (TRCL) has made an online application vide proposal no. IA/AP/IND1/556936/2026 dated 09.01.2026 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 para 7(ii) of the 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.

20.1.2 Name of the EIA consultant: M/s. B. S. Envi-Tech Pvt Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/2326/RA 0302 (Rev.01); valid upto 15.05.2026].

Details submitted by Project proponent

20.1.3 The project of The Ramco Cements Limited located in Kumarasamy Raja Nagar, Jayanthipuram Village, Jaggaiahpet Mandal, NTR District of Andhra Pradesh State is for expansion of Cement Plant Capacity through increase in production of Clinker from 4.685 to 5.922 Million TPA, Cement (OPC, PPC, PSC, CC & SRC) from 3.65 to 5.11 Million TPA and Waste Heat Recovery Power plant from 27 MW to 28.5 MW through modernization and upgradation of process units, i.e. upto 40% in two phases [**Phase-I**: Clinker from 4.685 to 5.622 MTPA, Cement (OPC, PPC, PSC, CC & SRC) from 3.65 to 4.38 MTPA, with existing CPP (24 MW) and WHRB (27 MW) & **Phase-II**: Clinker from 5.622 to 5.922 MTPA, Cement (OPC, PPC, PSC, CC & SRC) from 4.38 to 5.11 MTPA, WHRB from 27 to 28.5 MW with existing 24 MW CPP] under para 7(ii) of EIA Notification, 2006 [OM dated 11.04.2022]. The instant proposal is for expansion under Phase-I.

20.1.4 **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, upto 40% expansion in production capacity is proposed which will be done in 2 phases viz. **Phase-I**: Clinker from 4.685 to 5.622 MTPA, Cement (OPC, PPC, PSC, CC & SRC) from 3.65 to 4.38 MTPA, with existing CPP (24 MW) and WHRB (27 MW) & **Phase-II**: Clinker from 5.622 to 5.922 MTPA, Cement (OPC, PPC, PSC, CC & SRC) from 4.38 to 5.11 MTPA, WHRB from 27 to 28.5 MW with existing 24 MW CPP. 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:

| S. No. | Conditions | Reply of PP |
|--------|--|---|
| 1. | 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 projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments. | <ul style="list-style-type: none"> Public Hearing for this project was held on 28th June 2019. EC was obtained from MOEF vide F. No. J-11011/403/2006-IA II (I) dated 18.12.2019 for the existing capacities of Clinker – 4.685 MTPA, Cement – 3.65 MTPA, Thermal Power – 24 MW, Waste Heat Recovery Power – 27 MW and DG Power – 4 MW. |
| 2. | There should not be change in Category of the project from 'B2' to 'B1' or 'A' due to proposed modernisation or expansion. | There is no change in the category of the project. The subject project falls under Category "A" only. |

| S. No. | Conditions | Reply of PP |
|--------|---|--|
| 3. | There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regard to mining vis-a-vis the area mentioned in the EC, based on which public hearing has been held earlier. | <ul style="list-style-type: none"> There is no additional land acquisition or forest land involved in the project. As per the earlier EC the total land involved in the project is 329 Ha. The proposed enhancement will be taken up in the existing plant premises only. The Public Hearing was also carried out for the same area. |
| 4. | The proposed expansion shall not be more than 50% of 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. | The current proposal seeks a 26.4% increase in clinker production, a 40 % increase in cement production and 5.5 % increase in Waste Heat Recovery Power. |
| 5. | Predicted environmental quality parameters arising out of proposed expansion / modernization shall be within the prescribed norms and the same shall be maintained as per prescribed norms. | The predicted environmental quality parameters of proposed expansion are within the prescribed norms. |
| 6. | 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%. | TRCL has developed greenbelt in an area of 130.24 Ha (39.59%). The greenbelt area will be maintained at not less than 33.33%. |
| 7. | The project proponent should have satisfactorily complied the conditions stipulated in the existing EC(S) 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. | <ul style="list-style-type: none"> Latest CCR issued on 01.01.2026 Site inspected on 23.12.2025. All Points are complied |
| 8. | Public Consultation shall be undertaken [if applicable as per table below] by obtaining response in | <ul style="list-style-type: none"> The Public Hearing for this project was held on 28th June 2019. |

| S. No. | Conditions | Reply of PP |
|--------|---|--|
| | writing, as per para 7 III (ii) (b) of EIA Notification 2006, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments. | <ul style="list-style-type: none"> The EC was obtained from MOEF vide F. No. J-11011/403/2006-IA II (I) dated 18.12.2019 and an amendment vide F. No. J-11011/403/2006-IA II (I) dated 15.07.2020. The current proposal seeks a 26.4% increase in clinker production, a 40 % increase in cement production and 5.5 % increase in Waste Heat Recovery Power. Hence Public Hearing is not applicable for this project. |
| 9. | Effluent monitoring including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed. | <ul style="list-style-type: none"> As per the existing EC, four Continuous Ambient Air Quality Monitoring Stations shall be installed (one within and three outside the plant area at an angle of 120° each) covering upwind and downwind directions. TRCL has installed 5 Nos. of On-line Real Time CAAQM stations. TRCL has installed 13 Nos. of Online stack monitors for PM parameter and 4 Nos. of Online stack monitors for SO2 & NOx parameters. |

20.1.5 Details of EDS:

EDS Raised by MoEFCC dated 14.11.2025 and replies was submitted on 09.01.2026

| S.No | Details of EDS sought by Ministry | Reply of PP |
|------|---|---|
| 1 | RO, MoEF&CC, in its CCR dated 23.12.2024, has highlighted several partially complied / non-complied conditions of the earlier ECs. Although the PP has submitted an ATR on 19.07.2025, there is no closure report. As per para 7(ii) requirements, satisfactory compliance of CCR is mandatory (considering that PP is claiming benefit of PH exemption) for appraisal of proposal. PP is requested to obtain and submit the closure report from RO, MoEF&CC. | <p>As per the CCR dated 23.12.2024, the Regional Office (RO), MoEF&CC identified several Environmental Clearance (EC) conditions as partially complied with or non-complied. In response, TRCL submitted the Action Taken Report (ATR) on 19.07.2025.</p> <p>In this context, TRCL submitted a request to MoEF&CC on 15.11.2025 seeking issuance of the closure report. Subsequently, MoEF&CC, New Delhi, vide communication dated 19.11.2025, advised the Sub-Regional Office, Vijayawada, to furnish its comments with reference to the closure report.</p> <p>Further, as the validity of the earlier CCR dated 23.12.2024 was limited to one year from the date of inspection, in accordance with the Ministry's Office Memorandum dated 08.06.2022 and since the previous inspection had completed one year, the project was re-inspected on 23.12.2025 by Sub-Office, Vijayawada, MoEF&CC. Accordingly, a detailed point-wise compliance status of EC conditions was prepared and issued vide E-File No. SO/VIJ/EPA/EC-1/101/04-</p> |

| S.No | Details of EDS sought by Ministry | Reply of PP |
|------|---|---|
| | | <p>57/2024/304 dated 01.01.2026. Certified EC Compliance reports is submitted.</p> <p>All Points are Compiled as per latest CCR dated 01.01.2026 issued by Sub-Office, Vijayawada, MoEF&CC.</p> |
| 2 | <p>The earlier EC dated 18.12.2019 states that out of the total project area of 329.0 ha, an area of 172.745 ha (52.50%) is earmarked for greenbelt development. However, PP has reported that the existing greenbelt is only 130.24 ha, and that no additional greenbelt area is proposed after the expansion. PP may clarify this deviation and justify how greenbelt commitments will be met. This issue has been raised in the CCR as well. PP has not obtained Review report from concerned RO MoEFCC or a closure report from the IA-CMD. PP may submit the same.</p> | <p>As per the earlier Environmental Clearance dated 18.12.2019 (Point No. 9 on Page No. 2), the total plant area is 329 ha, and the greenbelt is required to be developed over an area of about 172.745 ha (52.5%). TRCL has developed greenbelt over an area of 174.9 ha, accounting for about 53% of the total plant area.</p> <p>To ascertain the extent of greenbelt available within the plant and colony areas, a study was undertaken by M/s. Creative Engineers and Consultants, Chennai. The study indicates that about 174.90 ha of the plant complex area is covered with vegetative cover, of which 136.21 ha falls under the high-density category and 38.69 ha falls under the medium to low-density category. The report is submitted.</p> <p>The same details have been reflected in the latest Compliance Status Report (CCR), and accordingly, the stipulated condition stands complied with.</p> |
| 3 | <p>The land documents and the NOC from the DFO regarding non-involvement of forest land are uploaded in the regional language. PP shall provide authenticated English translations, duly certified by a notary.</p> | <p>The notarized English translation of the land documents are uploaded on the Parivesh Portal and are submitted.</p> <p>A No Objection Certificate (NOC) has been issued by the District Forest Officer (DFO), NTR Division, Government of Andhra Pradesh, vide RC No. 2144/2019/TO dated 22.10.2025. The certificate confirms that the proposed project site does not involve any forest land and that there is no impact on the nearest Reserve Forest. The NOC has been uploaded on the Parivesh Portal and is submitted.</p> |
| 4 | <p>PP has uploaded a Wildlife Conservation Plan; however, being an expansion project, PP shall provide the details of implementation, and final approval of WCP.</p> | <p>There are 4 Nos. of Schedule – I species reported in the study area as per Wild Life (Protection) Amendment, 2022. To protect these Schedule – I Fauna, TRCL have prepared the Wildlife conservation plan with total budget of Rs. 101.25 Lakhs.</p> <p>The Wildlife Conservation Plan is approved by Principal Chief Conservator of Forests (WL) and Chief Wildlife Warden, AP vide Rc. No. 21024/16/2022/WL-2 dated 11.06.2024 with a financial outlay of Rs. 101.25 Lakhs, which is already paid as Rs. 35.0 lakh on 29.11.2024 & Rs. 66.25 lakh on 02.01.2025.</p> <p>In addition to above, TRCL has deposited Rs. 15.00 lakhs for development of Butterfly Park near Mulapadu</p> |

| S.No | Details of EDS sought by Ministry | Reply of PP |
|------|--|--|
| | | <p>road of Vijayawada Range of NTR Division, Vijayawada under CSR activity for the year 2023-24.</p> <p>The approval and monitoring of implementation status of the Wildlife Conservation Plan fall within the statutory mandate of the Forest Department, and compliance is ensured as per the conditions stipulated by the competent authority.</p> <p>TRCL requested to provide the details of implementation status of wildlife conservation plan to PCCF vide letter dated 15.11.2025 and 16.12.2025. The current implementation status will be furnished as and when communicated by the Forest Department.</p> |
| 5 | <p>PP shall furnish the current status of renewal of the APWALTA permission for utilization of 7000 KLD of dewatered mine seepage water, as the existing permission has expired and the approval on the renewal application (dated 23.08.2024) is still reported as pending.</p> | <p>TRCL has obtained NOC from Panchayat Raj & Rural Development Department and the Administrator, APWALTA, Govt. of Andhra Pradesh for utilization of 7000 m³/day of dewatered Mine Seepage Water for their Cement plant, Coal based Captive Thermal Power plant, Waste Heat Recover Boilers, Colony and associated 5 Nos. of Captive Limestone Mines located at Jayanthipuram Village, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh vide Permission letter No. No. PRR05-11028/45/2018-SLNA-GIS-CORD, date: 13.11.2021, which is valid up to 12.11.2024.</p> <p>TRCL has submitted the renewal application on 23.08.2024. Field studies were conducted by the Ground Water Department, Government of Andhra Pradesh, and the study report has been forwarded to the Panchayat Raj & Rural Development Department and the Administrator, APWALTA, Government of Andhra Pradesh.</p> <p>TRCL has further approached to Panchayat Raj & Rural Development Department and the Administrator, APWALTA on 15.11.2025 and Approval of the same is currently under process.</p> |
| 6 | <p>PP shall submit mine-wise EC-approved limestone production capacities, for supporting the enhanced clinker production of 5.922 MTPA, along with mode of transportation.</p> | <p>The major raw material for the manufacture of Cement is Limestone and is sourced from the Captive Limestone Mines of existing and proposed captive mines, located adjacent and in the vicinity to the Cement Plant. The limestone requirement of the plant after the expansion is estimated to be about 7.78 MTPA. TRCL has obtained Environmental Clearance (EC) for various mines as per the table below.</p> <p style="text-align: center;">ENVIRONMENTAL CLEARANCE (EC) ORDERS FOR DIFFERENT MINES</p> |

| S.No | Details of EDS sought by Ministry | Reply of PP | | | | | | | | | |
|---|---|---|---|--|----------------------------|-------------------------|-----------------------------|-----------------------|----------------------|-----------------------|-------------|
| | | S . N o | Name of the mine | Latest EC Reference | Appr oved Qua ntity, MTP A | Dista nce, km | Mode of Transpo rtation | | | | |
| | | 1 | Jayanthi puram Limesto ne Mine (North Band) | J- 11015/377/2006- IA.II(M) dated 18.05.2007 | 1.8 | Adjac ent | Road | | | | |
| | | 2 | Jayanthi puram Limesto ne Mine (South Band) | SEIAA/AP/MIN/ KRI/8/2019/ 1219/ 167.76&164.67 dated 26.10.2021 | 1.75 | 1.06 km – SSW | Road | | | | |
| | | 3 | Ravirala Limesto ne Mine (RF) | SEIAA/AP/MIN/ KRI/07/2020/ 1973/ 174.80 & 171.63 dated 05.03.2022 | 2.75 | 3.24 km – SSE | Own dedicated concrete road | | | | |
| | | 4 | Ramco Budawa da Limesto ne Mine (RF) | J-11015/443/ 2014-IA.II(M) dated 09.07.2024 | 2.50 | Aeria l - 1.62 km – SSW | Rail / road | | | | |
| | | 5 | Jayanthi puram East Band Limesto ne Mine | SEIAA/AP/MIN/ EC/NT/04/2025/ 1354/261.20 & 261.14 and dated 14.05.2025 | 1.20 | 1.56 km - S | Own dedicated concrete road | | | | |
| | | Total | | | 10.0 | | | | | | |
| 7 | PP shall furnish the implementation status of the commitments made in the 2019 public hearing, including action-taken against each issue raised, supported with documentary evidence. | <p>The Public Hearing was conducted earlier for this project on 28.06.2019.</p> <p>The status of implementation of the commitments made in the 2019 public hearing till December 2025 including budgetary provision for 2025-26 is given below and the supporting documents regarding the same are submitted.</p> | | | | | | | | | |
| Status of Commitments from the Public Hearing Held on 28.06.2019 and Action Plan (as of December 2025), Rs. In Lakhs | | | | | | | | | | | |
| S . N o | Activity | Year (Rs. Lakhs) | | | | | | | Total | | |
| | | 2019- 2020 | 2020- 2021 | 2021- 2022 | 2022- 2023 | 2023- 2024 | 2024- 2025 | 2025- 2026 completed* | | 2025- 2026 budg eted* | |
| 1 | Devel opmen t of Jagga yyapet & | Physical No. | - | Covid | 1 | 1 | - | - | 2 | - | 50.3 |
| | Village | | - | Surrou nding | Jaggai a hpet | - | - | - | Buda wada & DP Tanda | - | |

| S.No | Details of EDS sought by Ministry | | | | | Reply of PP | | | | |
|------|--|---|-------------------------------------|---------------------------|---------------------------|-------------|---|-------------------------|--------------------|-------|
| | nearby Hospitals | Budget Rs Lakh | - | 14.6 | 33.20 | - | - | - | - | 2.5 |
| 2 | Conducting free medical camps in surrounding villages & free medicines | Physical No. | - | - | - | - | - | - | - | |
| | Villages | | | | Surrounding | | | | | |
| | | Budget Rs Lakh | 4.0 | 4.28 | 4.82 | 6.49 | 10.0 | 12.0 | - | 16.0 |
| | | | | | | | | | | 57.59 |
| 3 | Conducting eye testing camps & veterinary camps | Physical No. | 02 | - | - | - | - | 4 eye camps | 2 veterinary camps | - |
| | Villages | Surrounding | - | - | | | | | | 5.35 |
| | Budget Rs Lakh | 0.95 | - | - | 0.40 | 1.0 | 1.0 | - | 2.0 | |
| 4 | Supply of drinking water through RO plants to surrounding villages | Physical No. | - | 2 | 1 | 1 | - | - | 3 | |
| | Village | - | Jayanthipuram & DP Thanda | Nawabpet | Ravirala | - | - | Budawada & Jaggai ahpet | | DSS |
| | Budget Rs Lakh | - | 12.7 | 2.38 | 3.03 | | | | 15.0 | 33.11 |
| 5 | Domestic water supply schemes that is construction of water tanks, laying water pipeline networks and providing drinking | Physical No. | 4 | 3 | 2 | 2 | 2 | 2 | 5 | |
| | Village | Jayanthipuram SC Colony, Budawada, Ravirala & DP Thanda | Jayanthipuram, Budawada & DP Thanda | Jayanthipuram & DP Thanda | Jayanthipuram & DP Thanda | Surrounding | Jayanthipuram (35 KL Water tank) & Ravirala | - | Surrounding | |
| | Budget Rs Lakh | 5.0 | 1.1 | 2.81 | 13.43 | 0.82 | 14.86 | - | 8.5 | 46.52 |

| S.No | Details of EDS sought by Ministry | | | | | Reply of PP | | | | | |
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| | water to water tanker s. | | | | | | | | | | |
| 6 | Providing saplings to villages & tree guards | Physical No. | - | - | - | 1 | - | - | - | - | 2.75 |
| | | Village | - | - | | Jayanthipuram | - | - | - | - | |
| | | Budget Rs Lakh | - | - | | 2.75 | - | - | - | - | |
| 7 | Skill development programmes under Apprenticeship, Project work, Trainings shall be given to local educated youth | Physical No. | - | Nearly 40 student s | Nearly 40 student s | Nearly 40 student s | Nearl y 40 stude nts | Nearly 40 student s | Nearl y 60 stude nts | - | 171.3 |
| | | Villages | - | Surrounding | | | | | | - | |
| | | Budget Rs Lakh | - | 25 | 24.8 | 25.50 | 25 | 25 | 46 | - | |
| 8 | Admission to local students in company school | Physical No. | - | - | - | 680 | 680 | 680 | - | - | 7.84 |
| | | Villages | - | Surrounding | | | | | | - | |
| | | Budget Rs Lakh | - | - | 1.84 | 2 | 2 | 2 | - | - | |
| 9 | Development of temples and worship places | Physical No. | 1 | 2 | | - | - | 1 | 1 | - | 53.79 |
| | | Villages | Surrounding (Lingala) | | - | - | - | Surrounding | | - | |
| | | Budget Rs Lakh | 46.19 | 0.83 | - | - | - | 4.98 | 1.79 | - | |
| 10 | Supply of water to Agriculture Lands surrounding villages | Physical No. | - | - | - | 1 | - | 1 | - | - | 3.87 |
| | | Villages | Surrounding (Jayanthipuram) | | | | | | - | - | |
| | | Budget Rs Lakh | - | - | | | | 3.87 | - | - | |

| S.No | Details of EDS sought by Ministry | | | | | | Reply of PP | | | | | | | |
|------|---|---|----------------------|----------|----------------------|---|--|---|------------------------------------|------------------------|----------------|-----------|------------|--|
| | 1 1 | Infrast ructur al faciliti es | Physical No. | 1 | 2 | - | - | 3 | 2 | - | - | 102.6 | | |
| 8 | | | Villages | Ravirala | Ravirala & DP Thanda | - | - | Surrounding (Jayanthipuram, Agraharam, Ravirala) | | | - | | | |
| | | | Budget Rs Lakh | 1.53 | 5.98 | - | - | 18.20 | 21.89 | - | 55.0 | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Sub Total | 535.0 2 | |
| 9 | PP shall provide a comparative layout plan showing the existing EC-approved layout and the proposed layout, clearly marking all modifications and upgraded units. | | | | | | The Engineering Layout showing the existing EC-approved layout in blue colour and the proposed layout is in pink colour is submitted | | | | | | | |
| | | | | | | | A comparative statement of resource requirements with respect to land, raw materials, water, and power has been prepared, comparing the provisions of the earlier Environmental Clearance dated 18.12.2019 with the proposed expansion scenario. The details are presented in the table below. | | | | | | | |
| | | | | | | | COMPARATIVE STATEMENT OF RESOURCE REQUIREMENTS | | | | | | | |
| | | | | | | | Sl . N o | Description | Earlier EC dated 18.12.2019 | After Expansion | Remarks | | | |
| | | | | | | | 1 | Land, ha | 329 | 329 | No Change | | | |
| | | | | | | | 2 | Raw Material, TPA | | | | | | |
| | | | | | | | | Limestone | 65,70,00 | 77,75,586 | 18% increase | | | |
| | | | | | | | | Laterite | 2,10,000 | 2,65,450 | 26% increase | | | |
| | | | | | | | | Iron Rich Laterite | 2,50,000 | 3,16,000 | 26% increase | | | |
| | | | | | | | | Gypsum | 1,80,000 | 2,55,000 | 42% increase | | | |
| | | | | | | | | Fly Ash | 9,10,000 | 12,74,000 | 40% increase | | | |
| | | | | | | | | Slag | 2,86,000 | 4,00,000 | 40% increase | | | |
| | | | | | | | | Coal (Indian or Imported) for Cement Plant – 100% | 6,30,000 | 6,90,000 | 10% increase | | | |
| | | | | | | | | Pet Coke (Indian or Imported) for | 4,74,666 | 5,18,175 | 9% increase | | | |

| S.No | Details of EDS sought by Ministry | Reply of PP | | | | | |
|---|---|---|----------|----------|------------------------------------|--|--|
| 10 | PP shall submit pollution load calculations for air, water, solid & hazardous waste, and traffic, comparing the existing loads with the loads after expansion vis-à-vis the earlier EC. | Cement Plant – 100 % | | | | | |
| | | Coal (Indian or Imported) for Thermal Power Plant – 100 % | 1,10,000 | 1,10,000 | No Change | | |
| | | 3 Fresh Water requirement, m ³ /day | 5000 | 5100 | Additional 100 m ³ /day | | |
| | | 4 Power, MW | 58 | 60 | Additional 12 MW | | |
| Pollution load calculations for air emissions, water effluents, solid & hazardous waste generation, and traffic-related emissions have been carried out. The assessment systematically compares the existing pollution loads, as stipulated in the earlier Environmental Clearance, with the projected loads following the proposed expansion. The evaluation is based on established design parameters, operating conditions, emission and effluent concentrations, material throughput, and CPCB-approved emission factors. The analysis demonstrates that the incremental pollution loads are proportionate to the proposed capacity enhancement and are effectively mitigated through the implementation of strengthened and upgraded pollution control measures. The details are given below | | | | | | | |
| <p>POLLUTION LOAD CALCULATIONS - AIR ENVIRONMENT</p> <p>The cement plant is presently operating with three process lines, namely Line-I, Line-II, and Line-III. For Line-I and Line-II, all air pollution control systems have been designed and are operated to ensure that particulate matter emissions at the stack outlets are consistently maintained below 30 mg/Nm³, in compliance with CPCB norms and the applicable Environmental Clearance conditions. For Line-III, the prescribed stack emission standard for major equipment, including Kiln-III, Cooler-III, and Coal Mill-III, is more stringent and is limited to 20 mg/Nm³.</p> <p>Adequate covered sheds, silos, and material handling systems have been provided for raw materials and finished products to minimize fugitive emissions.</p> <p>The unit-wise emission loads for PM, SO₂, and NO_x have been estimated for both pre-expansion (existing EC scenario) and post-expansion scenario, considering normalized flue gas flow rates and outlet concentrations. The comparison indicates that the increase in pollution load is directly attributable to the enhanced clinker production capacity and increased fuel consumption, while no new emission sources are introduced.</p> <p>Despite the increase in absolute pollution load, the specific emissions remain controlled within regulatory limits, supported by efficient pollution control equipment such as bag filters / ESPs, optimized combustion systems and adequate stack heights ensuring effective dispersion.</p> | | | | | | | |

| S.No | Details of EDS sought by Ministry | | Reply of PP | | | | | | | | | | | | | | | | |
|---|-----------------------------------|----------------------------|-------------|------------------|-----------|-----------------------------|----------------------------|-------------------------|-----------|-----------|----------------------------------|--------|--------|-----------------------------------|--------|--------|-----------------------------------|--|-------|
| <p>The incremental pollution load is proportionate to the production enhancement and will be effectively mitigated through existing and upgraded pollution control measures, continuous stack monitoring, and adherence to EC-prescribed emission standards.</p> | | | | | | | | | | | | | | | | | | | |
| POLLUTION LOAD – AIR Environment, Kg/day | | | | | | | | | | | | | | | | | | | |
| 1 | Kiln-I | Source | | Before Expansion | | | | | | | | | | | | | | | |
| | | PM | 384 | 477 | | | | | | | | | | | | | | | |
| | | SO ₂ | 1280 | 1591 | | | | | | | | | | | | | | | |
| 2 | Kiln-II | NOx | 7679 | 9544 | | | | | | | | | | | | | | | |
| | | PM | 311 | 388 | | | | | | | | | | | | | | | |
| | | SO ₂ | 1037 | 1293 | | | | | | | | | | | | | | | |
| 3 | Kiln-III | NOx | 8297 | 10348 | | | | | | | | | | | | | | | |
| | | PM | 255 | 350 | | | | | | | | | | | | | | | |
| | | SO ₂ | 1274 | 1750 | | | | | | | | | | | | | | | |
| 4 | PM | NOx | 7644 | 10503 | | | | | | | | | | | | | | | |
| | | Cooler – I | 111 | 139 | | | | | | | | | | | | | | | |
| | | Cooler - II | 178 | 218 | | | | | | | | | | | | | | | |
| | | Cooler - III | 113 | 168 | | | | | | | | | | | | | | | |
| | | Coal Mill - I | 52 | 52 | | | | | | | | | | | | | | | |
| | | Coal Mill - II | 96 | 96 | | | | | | | | | | | | | | | |
| | | Coal Mill - III | 40 | 40 | | | | | | | | | | | | | | | |
| | | Cement Mill - I | 36 | 36 | | | | | | | | | | | | | | | |
| | | Cement Mill - II | 36 | 36 | | | | | | | | | | | | | | | |
| | | Cement Mill – III | 240 | 240 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| OVERALL POLLUTION LOAD – AIR ENVIRONMENT, Kg/day | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Parameter</th> <th>Before Expansion, kg/day</th> <th>After Expansion, kg/day</th> </tr> </thead> <tbody> <tr> <td>Particulate Matter, PM</td> <td>1,851</td> <td>2,239</td> </tr> <tr> <td>Sulphur Dioxide, SO₂</td> <td>3,591</td> <td>4,635</td> </tr> <tr> <td>Oxides of Nitrogen, NOx</td> <td>23,621</td> <td>30,395</td> </tr> </tbody> </table> | | | | | Parameter | Before Expansion, kg/day | After Expansion, kg/day | Particulate Matter, PM | 1,851 | 2,239 | Sulphur Dioxide, SO ₂ | 3,591 | 4,635 | Oxides of Nitrogen, NOx | 23,621 | 30,395 | | | |
| Parameter | Before Expansion, kg/day | After Expansion, kg/day | | | | | | | | | | | | | | | | | |
| Particulate Matter, PM | 1,851 | 2,239 | | | | | | | | | | | | | | | | | |
| Sulphur Dioxide, SO ₂ | 3,591 | 4,635 | | | | | | | | | | | | | | | | | |
| Oxides of Nitrogen, NOx | 23,621 | 30,395 | | | | | | | | | | | | | | | | | |
| <p>Due to the increase in Clinker production and also for increase in quantity of coal used for calcination the pollution load also increases accordingly.</p> | | | | | | | | | | | | | | | | | | | |
| LOAD BASED EMISSION CALCULATION, Particulate Matter (PM) | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th></th> <th>Existing</th> <th>After Expansion</th> </tr> </thead> <tbody> <tr> <td>Clinker Production, TPA</td> <td>46,85,000</td> <td>59,22,000</td> </tr> <tr> <td>Pollution Load, kg/Annum</td> <td>508197</td> <td>636109</td> </tr> <tr> <td>Load Based Emission, Kg/T clinker</td> <td>0.1085</td> <td>0.1074</td> </tr> <tr> <td>Load Based Standard, Kg/T clinker</td> <td></td> <td>0.125</td> </tr> </tbody> </table> | | | | | | Existing | After Expansion | Clinker Production, TPA | 46,85,000 | 59,22,000 | Pollution Load, kg/Annum | 508197 | 636109 | Load Based Emission, Kg/T clinker | 0.1085 | 0.1074 | Load Based Standard, Kg/T clinker | | 0.125 |
| | Existing | After Expansion | | | | | | | | | | | | | | | | | |
| Clinker Production, TPA | 46,85,000 | 59,22,000 | | | | | | | | | | | | | | | | | |
| Pollution Load, kg/Annum | 508197 | 636109 | | | | | | | | | | | | | | | | | |
| Load Based Emission, Kg/T clinker | 0.1085 | 0.1074 | | | | | | | | | | | | | | | | | |
| Load Based Standard, Kg/T clinker | | 0.125 | | | | | | | | | | | | | | | | | |
| WATER ENVIRONMENT: | | | | | | | | | | | | | | | | | | | |

| S.No | Details of EDS sought by Ministry | Reply of PP | | | | | |
|---|---|--------------------|--------------------------------|--------------------------|--|--|--|
| | <p>The wastewater generated from domestic activities is treated in the Sewage Treatment Plant (STP) and the treated effluent quality complies with the Consent for Operation (CFO) prescribed standards. The analysis of wastewater quality before and after treatment confirms effective reduction in BOD, COD, TSS, and Oil & Grease, ensuring compliance with regulatory norms.</p> <p>The pollution load calculations for wastewater parameters have been carried out considering treated effluent concentrations and wastewater flow rates. The assessment indicates that the treated effluent pollution loads remain within permissible limits.</p> | | | | | | |
| QUALITY OF WASTE WATER FROM STP | | | | | | | |
| S. N o | Parameters | Results | | CTO Prescribed Standards | | | |
| | | STP Inlet | STP Outlet | | | | |
| 1 | pH | 6.37 | 6.82 | 5.5- 9.0 | | | |
| 2 | Oil & Grease, mg/l | 11.0 | 8.8 | 10 | | | |
| 3 | Total Suspended Solids, mg/l | 120 | 68 | <100 | | | |
| 4 | BOD for 3 days at 27°C, mg/l | 50 | 24 | 30 | | | |
| 5 | COD, mg/l | 184 | 96 | <1000 | | | |
| POLLUTION LOAD CALCULATIONS FROM STP | | | | | | | |
| Sl. No | Parameters | STP Outlet Results | Waste water Generation, m³/day | Pollution Load, kg/day | | | |
| 1 | Oil & Grease, mg/l | 8.8 | 580 | 5.104 | | | |
| 2 | Total Suspended Solids, mg/l | 68 | 580 | 39.44 | | | |
| 3 | BOD for 3 days at 27°C, mg/l | 24 | 580 | 13.92 | | | |
| 4 | COD, mg/l | 96 | 580 | 55.68 | | | |
| QUALITY OF WASTE WATER FROM ETP | | | | | | | |
| S. N o | Parameters | Results | | Standards | | | |
| | | ETP Outlet | | | | | |
| 1 | pH | 8.42 | | 5.5-9.0 | | | |
| 2 | Total Dissolved Solids, mg/l | 928 | | 2100 | | | |
| 3 | Total Suspended Solids, mg/l | 50.6 | | 100 | | | |

| | | | |
|---|------------------------------|------|-----|
| 4 | COD, mg/l | 62.3 | 250 |
| 5 | BOD for 3 days at 27°C, mg/l | 23.6 | 100 |
| 6 | Oil & Grease, mg/l | 1.1 | 10 |

POLLUTION LOAD CALCULATIONS FROM ETP

| Sl. N o | Parameters | ETP Outlet Results | Waste water Generation, m³/day | Pollution Load, Kg/day |
|---------|------------------------------|--------------------|--------------------------------|------------------------|
| 1 | Total Dissolved Solids, mg/l | 928 | 700 | 649.6 |
| 2 | Total Suspended Solids, mg/l | 50.6 | 700 | 35.42 |
| 3 | COD, mg/l | 62.3 | 700 | 43.61 |
| 4 | BOD for 3 days at 27°C, mg/l | 23.6 | 700 | 16.52 |
| 5 | Oil & Grease, mg/l | 1.1 | 700 | 0.77 |

There is no change in wastewater generation quantity from the Cement plant and domestic sources due to the proposed expansion. Treated wastewater continues to be reused within the plant premises, supporting the zero liquid discharge.

SOLID & HAZARDOUS WASTE:

The increase in solid waste generation, primarily in the form of fine dust collected from air pollution control equipment, is directly related to the increased production capacity. The entire quantity of fine dust is being recycled back into the cement manufacturing process, ensuring zero solid waste disposal.

Hazardous waste generation such as used oil, spent grinding media, and used lead acid batteries shows a marginal increase post-expansion. All hazardous wastes are being handled, stored and disposed of strictly in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, through authorized recyclers / re-processors or co-processing, ensuring no adverse environmental impact.

SOLID WASTE GENERATION

| S. No | Type of Solid waste | Quantity | | Handling/storage | Mitigation measure Recycle / reuse/ utilization |
|-------|---|----------|-------|--------------------------------------|---|
| | | Before | After | | |
| 1 | Fine dust collected in air pollution control equipment, TPD | 1,703 | 2,153 | Recycled within Cement plant circuit | Recycled back to process |

HAZARDOUS WASTE GENERATION

| | Quantity | Method of Disposal |
|--|----------|--------------------|
| | | |

| S.No | Details of EDS sought by Ministry | | | Reply of PP |
|------|-----------------------------------|-------------------------|--------------------|---|
| | Sl. No. | Name of Hazardous Waste | Existing | After Expansion |
| 1 | Hi-chrome grinding media, TPA | 260 | 320 T | Return back to the supplier for recycling |
| 2 | Waste oil, LPA | 500 | 600 | Shall be disposed to the authorized recyclers/ re-Processors through M/s. APEMC (or) co-processing within the industry. |
| 3 | Used Lead Acid Batteries | 200 Nos. per Annum | 250 Nos. per Annum | To authorized dealers on buy-back basis. |

VEHICULAR TRAFFIC:

The proposed expansion results in an increase in raw material and finished product transportation, leading to an increase in the number of vehicular movements. Vehicular emission loads for PM, SO₂, NO_x, and CO have been estimated using CPCB-recommended emission factors and compared for pre- and post-expansion scenarios.

The incremental vehicular emissions are proportionate to the increased traffic volume and will be mitigated through:

- Well-maintained vehicle fleet
- Paved internal roads
- Controlled vehicle speeds
- Regular water sprinkling
- Optimized logistics planning

VEHICULAR EMISSIONS FROM MATERIAL TRANSPORT

| | | Raw Material + Finished Product | |
|---|---------|---------------------------------|-----------------|
| Description | | Before Expansion | After Expansion |
| Quantity, MTPA | | 3.07 | 4.239 |
| Quantity, TPD | | 8771 | 12111 |
| Operational Days | | 350 | 350 |
| Capacity of each Dumper | | 25 | 25 |
| Basis Factor of 25 Dumper, kw | | 112 | 112 |
| Vehicle Speed km/hr | | 25 | 25 |
| Operating hours in a day, (2 shifts/12 hrs) | | 24 | 24 |
| Total number of Trucks in day | | 351 | 484 |
| Number of Dumper /hr | | 15 | 20 |
| Lead length per trip, km (two way) | | 20 | 20 |
| Total Vehicle km travelled per Hr | | 292 | 404 |
| PM | gm/kwh* | 0.02 | 0.02 |

| S.No | Details of EDS sought by Ministry | Reply of PP | | |
|------|-----------------------------------|---------------------------|----------|----------|
| | SO ₂ | gm/sec | 0.00728 | 0.01005 |
| | | mg/kg of diesel | 100 | 100 |
| | | diesel consumption lit/km | 0.3 | 0.3 |
| | | Density of diesel kg/l | 0.837 | 0.837 |
| | | gm/sec | 0.002039 | 0.002816 |
| | NOx Emission | g/kmhr* | 3.5 | 3.5 |
| | | gm/sec | 0.284 | 0.393 |
| | Carbon Monoxide | g/Kmhr* | 1.5 | 1.5 |
| | | gm/sec | 0.122 | 0.168 |

* <https://cpcb.nic.in/vehicular-exhaust/>

20.1.6 Environmental Site Settings:

| S.No. | Particulars | Details | Remarks | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|------------|--------------|--|-----------------------|-----------------|---|-------------|------|----|---------------|------|----|-------------|------|-----|--|--|--|--------------------|
| i. | Total land | <p>Total Land: 329 Ha.</p> <p>(Private Land: 266.94 ha + Revenue Land:62.06), Total land procession by The Ramco Cements Limited.</p> <p>No additional area will be required for enhancement.</p> | Land use: | Sl. No | Land use | Area, Ha. | % of Total area | | | | | | | | | | | | | | |
| | | | | 1 | Cement Plant, Power Plant & Truck Parking Area | 52.975 | 16.10 | | | | | | | | | | | | | | |
| | | | | 2 | Colony | 17.676 | 5.37 | | | | | | | | | | | | | | |
| | | | | 3 | Greenbelt | 130.24 | 39.59 | | | | | | | | | | | | | | |
| | | | | 4 | Railway lines | 9.692 | 2.95 | | | | | | | | | | | | | | |
| | | | | 5 | Vacant Area | 118.417 | 36.00 | | | | | | | | | | | | | | |
| | | | | Total | | 329 | 100 | | | | | | | | | | | | | | |
| ii. | Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 | <p>Total Land: 329 Ha.</p> <p>(Private Land: 266.94 ha + Revenue Land:62.06), Total land procession by The Ramco Cements Limited.</p> <p>No additional area will be required for enhancement.</p> | - | | | | | | | | | | | | | | | | | | |
| iii. | Existence of habitation & involvement of R&R, if any. | <p>Project site: None</p> <p>Study Area:</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance, km</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Dharmavarapadu Thanda</td> <td>0.03</td> <td>E</td> </tr> <tr> <td>Chillakallu</td> <td>0.46</td> <td>NE</td> </tr> <tr> <td>Jayanthipuram</td> <td>0.95</td> <td>SW</td> </tr> <tr> <td>Jaggayapeta</td> <td>1.83</td> <td>WNW</td> </tr> </tbody> </table> | Habitation | Distance, km | Direction | Dharmavarapadu Thanda | 0.03 | E | Chillakallu | 0.46 | NE | Jayanthipuram | 0.95 | SW | Jaggayapeta | 1.83 | WNW | | | | No R&R is involved |
| Habitation | Distance, km | Direction | | | | | | | | | | | | | | | | | | | |
| Dharmavarapadu Thanda | 0.03 | E | | | | | | | | | | | | | | | | | | | |
| Chillakallu | 0.46 | NE | | | | | | | | | | | | | | | | | | | |
| Jayanthipuram | 0.95 | SW | | | | | | | | | | | | | | | | | | | |
| Jaggayapeta | 1.83 | WNW | | | | | | | | | | | | | | | | | | | |

| S.No. | Particulars | Details | Remarks | | | | | | | | | | | | | | | |
|--|--|---|---|-------------|--------------|--------|---------------|---------------|---------------|---------------|---------------|--|---------------|---------------|----|---------------|---------------|---|
| iv. | Latitude and Longitude of <u>all</u> corners of the project site. | <table border="1"> <thead> <tr> <th>Point</th><th>Latitude N°</th><th>Longitude E°</th></tr> </thead> <tbody> <tr> <td>1.</td><td>16°51'29.77"N</td><td>80° 7'24.03"E</td></tr> <tr> <td>2.</td><td>16°53'32.39"N</td><td>80° 7'19.73"E</td></tr> <tr> <td>3.</td><td>16°52'32.70"N</td><td>80° 6'50.01"E</td></tr> <tr> <td>4.</td><td>16°52'36.49"N</td><td>80° 7'59.52"E</td></tr> </tbody> </table> | Point | Latitude N° | Longitude E° | 1. | 16°51'29.77"N | 80° 7'24.03"E | 2. | 16°53'32.39"N | 80° 7'19.73"E | 3. | 16°52'32.70"N | 80° 6'50.01"E | 4. | 16°52'36.49"N | 80° 7'59.52"E | - |
| Point | Latitude N° | Longitude E° | | | | | | | | | | | | | | | | |
| 1. | 16°51'29.77"N | 80° 7'24.03"E | | | | | | | | | | | | | | | | |
| 2. | 16°53'32.39"N | 80° 7'19.73"E | | | | | | | | | | | | | | | | |
| 3. | 16°52'32.70"N | 80° 6'50.01"E | | | | | | | | | | | | | | | | |
| 4. | 16°52'36.49"N | 80° 7'59.52"E | | | | | | | | | | | | | | | | |
| v. | Elevation of the project site | 51-94 m above MSL | - | | | | | | | | | | | | | | | |
| vi. | Involvement of Forest land if any. | No Forest Land Involved | A No Objection Certificate (NOC) has been issued by the District Forest Officer (DFO), NTR Division, Government of Andhra Pradesh, vide RC No. 2144/2019/TO dated 22.10.2025. The certificate confirms that the proposed project site does not involve any forest land and distance from the nearest reserve forest and no impact on the nearest reserve forest | | | | | | | | | | | | | | | |
| vii. | Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area | <p>Project site: None</p> <p>Study area</p> <table border="1"> <thead> <tr> <th>Waterbody</th><th>Distance</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>Paleru</td><td>0.90</td><td>SW</td></tr> <tr> <td>Krishna River</td><td>4.96</td><td>S</td></tr> <tr> <td>Nagarjuna Sagar Left bank Canal (Nandigama Branch)</td><td>3.92</td><td>ENE</td></tr> </tbody> </table> | Waterbody | Distance | Direction | Paleru | 0.90 | SW | Krishna River | 4.96 | S | Nagarjuna Sagar Left bank Canal (Nandigama Branch) | 3.92 | ENE | - | | | |
| Waterbody | Distance | Direction | | | | | | | | | | | | | | | | |
| Paleru | 0.90 | SW | | | | | | | | | | | | | | | | |
| Krishna River | 4.96 | S | | | | | | | | | | | | | | | | |
| Nagarjuna Sagar Left bank Canal (Nandigama Branch) | 3.92 | ENE | | | | | | | | | | | | | | | | |
| viii. | Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area | There is No ESZ/ ESA/ National Park/ Wildlife Sanctuary/ Biosphere Reserve/ Tiger Reserve/ Elephant Reserve etc. within the study area of 10 km from the Plant area. | - | | | | | | | | | | | | | | | |
| ix | Details of inter-linked projects | There is no interlinked project for this expansion | - | | | | | | | | | | | | | | | |

| S.No. | Particulars | Details | Remarks |
|-------|-----------------------|---------|---------|
| | needs to be submitted | | |

20.1.7 RCL had established Cement Plant at Kumaraswamy Raja Nagar (KSR Nagar) in the Year 1986. The plant was expanded with two process lines (Lines I & II). The existing project was accorded environmental clearance vide lr.no. J-11011/403/2006-IA-II (I) dated 18.12.2019 for enhancement of Clinker Production from existing 3.185 MTPA to 4.685 MTPA by installation of additional kiln (1.50 MTPA) without changing existing cement production (3.65 MTPA) & Power Generation (27 MW) through Waste Heat Recovery Boilers (3x9MW) and Downsizing of existing Thermal Power Generation 42 MW to 24 MW. Further EC amendment was issued vide No. J-11011/403/2006/IA-II(I) dated 15.07.2020 for amendment in specific condition. Consent to Operate for the existing units was accorded by Andhra Pradesh State Pollution Control Board vide Order no. APPCB/VJA/VJA/488/HO/CFO/2017- dated 02.12.2021. The validity of CTO is up to 31.01.2027.

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

| S. No | EC for | EC Reference | Approved quantity | Implementation Status |
|-------|---|--|--|-----------------------|
| 1 | Certificate of Environmental Clearance from Andhra Pradesh Pollution Control Board (Pre-EIA Notification 1994) | APPCB Lr. No. 190/PCB/Air/85-1400 dated 09.08.1985 | Cement: 7.5 MTPA | Implemented |
| 2 | Expansion of Cement Plant: Clinker from 3,250 TPD to 7,250 TPD and Cement from 1.60 MTPA to 2.60 MTPA along with Coal based Captive Power Plant (2x18 MW) | MoEF EC Order No. J-11011/403/2006-IA-II (I) dated 07.02.2007 | Clinker: 7,250 TPD Cement: 2.6 MTPA Power: 36 MW | Implemented |
| 3 | Plant Modernization & Expansion | MoEF EC Order No. J-11011/403/2006-IA-II (I) dated 09.06.2009 | Clinker: 2.80 MTPA Cement: 3.65 MTPA | Implemented |
| 4 | Expansion of Cement Plant: Clinker from 2.80 MTPA to 3.185 MTPA by Upgradation of Line-I & Optimum Utilization of Line-II (No change to the existing cement Production of 3.65 MTPA) and Installation of 6 MW Turbo Generator to existing 36 MW Coal based Captive Thermal Power Plant. | MoEF&CC EC Order No. J-11011/403/2006-IA-II (I) dated 29.09.2016 | Clinker: 3.185 MTPA Cement: 3.650 MTPA Captive Power: 42 MW (2x18 MW + 6 MW) | Implemented |
| 5 | Expansion of Cement Plant: Clinker from 3.185 MTPA to 4.685 MTPA by installation of Line-III, Cement Production - 3.65 MTPA (no change), | MoEF&CC EC Order Lr. No. J-11011/403/2006-IA-II (I) dated 18.12.2019 and its | Clinker: 4.685 MTPA Cement: 3.650 MTPA | Implemented |

| S. No | EC for | EC Reference | Approved quantity | Implementation Status |
|-------|---|--|---|-----------------------|
| | Installation of 27 MW Waste Heat Recovery Boilers and downsizing the Coal based Captive Thermal Power Plant to 24 MW. | amendment No. J-11011/403/2006/IA. II(I) dated 15.07.2020. | Thermal Power: 24 MW WHRB: 27 MW DG set: 4 MW | |

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

| Plant Facilities/ Units | Present Production (MTPA) | Phase-I Production after 20% (MTPA) | Phase-II Production after 40% (MTPA) | Total % of Increase in each line | Remarks |
|-------------------------|---------------------------|-------------------------------------|--------------------------------------|----------------------------------|--|
| CLINKER | | | | | |
| Line – I | 1.61 | 1.932 | 1.932 | 20 | Overall Increase in Clinker Production is 26.4% Beyond 20% increase is only in case of Line-III Clinker production. |
| Line – II | 1.575 | 1.89 | 1.89 | 20 | |
| Line – III | 1.5 | 1.8 | 2.1 | 40 | |
| Total | 4.685 | 5.622 | 5.922 | 26.4 | |
| Cement | 3.65 | 4.38 | 5.11 | 40 | Overall increase in Cement Production is 40% in 2 phases of 20% & 20% |
| Power | | | | | |
| CPP (MW) | 24 | 24 | 24 | 0 | No change |
| WHRB (MW) | 27 | 27 | 28.5 | 5.5 | 3 Nos. x 9.5 MW = 28.5 MW |
| DG (MW) | 4 | 4 | 4 | 0 | No change |

20.1.10 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. | Name of the Raw Material | Quantity TPA | | | Source | Approx. distance from cement plant (km) | Mode of transport |
|--------|--------------------------|------------------|---------------------------------|---------------------------------|----------------------------------|---|-------------------|
| | | Before Expansion | After Phase – 1 Expansion (TPA) | After Phase – 2 Expansion (TPA) | | | |
| 1 | Limestone | 65,70,000 | 73,81,686 | 77,75,586 | Captive mines | 3.2 | Road / Rail |
| 2 | Laterite | 2,10,000 | 25,2,003 | 2,65,450 | Andhra Pradesh & Telangana | 200 | |
| 3 | Iron Rich Laterite | 2,50,000 | 2,99,992 | 3,16,000 | Andhra Pradesh & Telangana | 200 | |
| 4 | Gypsum | 1,80,000 | 2,18,571 | 2,55,000 | Coromandel company Visakhapatnam | 420 | |
| 5 | Fly Ash | 9,10,000 | 10,92,000 | 12,74,000 | CTPP/ VTPS, Vijayawada | 80 | |

| S. No. | Name of the Raw Material | Quantity TPA | | | Source | Approx. distance from cement plant (km) | Mode of transport |
|--------|---|------------------|---------------------------------|---------------------------------|---------------------------------|---|-------------------|
| | | Before Expansion | After Phase – 1 Expansion (TPA) | After Phase – 2 Expansion (TPA) | | | |
| 6 | Slag | 2,86,000 | 3,42,857 | 4,00,000 | VSP, Visakhapatnam | 420 | |
| 7 | Coal (Indian or Imported) for Cement Plant – 100% | 6,30,000 | 6,55,046 | 6,90,000 | Singareni Collieries / Imported | 100 | |
| 8 | Pet Coke (Indian or Imported) for Cement Plant – 100 % | 4,74,666 | 4,91,925 | 5,18,175 | Reliance & imported | 400 | |
| 9 | Coal (Indian or Imported) for Thermal Power Plant – 100 % | 1,10,000 | No change | No change | Singareni Collieries / Imported | 100 | |

20.1.11 The present water requirement for the cement plant, Thermal Power Plant, Waste Heat Recovery Boilers, inclusive of domestic use, is 5000 m³/day. Out of 5000 m³/day about 1030 m³/day is for cement plant operations which is sourced from existing mine pits (Dewatered Mine Seepage Water). TRCL has obtained NOC from APWALTA, Govt. of Andhra Pradesh for utilization of 7000 m³/day of dewatered Mine Seepage Water for their Cement plant, Coal based Captive Thermal Power plant, Waste Heat Recover Boilers, Colony and associated 5 Nos. of Captive Limestone Mines located at Jayanthipuram Village, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh vide Permission letter No. No. PRR05-11028/45/2018-SLNA-GIS-CORD, date:13.11.2021. Renewal application is submitted to 23.08.2024, for which approval is under process. 100 m³/day of water is additionally required for cement plant expansion proposal. However, the ‘net fresh water requirement’ after expansion will be increased from 5000 m³/day to 5100 m³/day.

20.1.12 Present Peak Power requirement of the cement plant is 58 MW, which will be increased to 60 MW after this expansion proposal. By optimized and staggered operations of the supporting equipment, proposed power requirement will be catered by 57 MW (24 MW thermal power + 28.5 MW waste heat recovery power + 4 MW DG + 0.5 MW from APCPDCL).

20.1.13 Baseline Environmental Studies:

| Period | Emissions |
|--|---|
| AAQ parameters at 09 Locations (min and max) | <ul style="list-style-type: none"> ❖ PM₁₀ = 42.9 to 65.5 µg/m³ ❖ PM_{2.5} = 15.9 to 24.8 µg/m³ ❖ SO₂ = 8.3 to 18.8 µg/m³ ❖ NO₂ = 10.3 to 21.9 µg/m³ ❖ CO: less than 1 ppm |
| Incremental GLC Level | <ul style="list-style-type: none"> ❖ PM₁₀ = 1.36 µg/m³ (Level at 0.43 km – N direction) ❖ PM_{2.5} = 0.427 µg/m³ (Level at 0.57 km –N direction) ❖ SO₂ = 0.809 µg/m³ (Level at 0.46 km – N direction) ❖ NO_x = 4.943 µg/m³ (with in the plant site) |

| Period | Emissions | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------------------|-----------------------|-------------------------|--------------------|-----|--|-----|------|------|----------|------|-----------------------|-------------------------|--------------------|-----|--|-------------|------|------|----------|
| Ground water quality at 08 locations | <ul style="list-style-type: none"> ❖ CO = 4.98 $\mu\text{g}/\text{m}^3$ (Near to Plant boundary) ❖ pH = 7.65 – 7.95 ❖ Total Hardness = 270 - 525 mg/l ❖ Chlorides = 50 - 335 mg/l ❖ Fluoride = 0.50 – 1.31 mg/l ❖ Heavy Metals - all values are well within the IS: 10500 standards | | | | | | | | | | | | | | | | | | | | |
| Surface water quality at 08 locations | <ul style="list-style-type: none"> ❖ pH: 8.30 – 8.40; ❖ DO: 5.0 – 5.6 mg/l; ❖ BOD: 2 to 3 mg/l ; ❖ COD: 12 – 17 mg/l | | | | | | | | | | | | | | | | | | | | |
| Noise levels Leq (Day and Night) | <ul style="list-style-type: none"> ❖ Day time: Core zone: 54.5 – 65.1dB (A); Buffer Zone: 54.1 – 58.1 dB (A) ❖ Night time: Core zone: 47.8 – 58.6 dB (A); Buffer Zone: 44.3 – 47.3 dB (A) | | | | | | | | | | | | | | | | | | | | |
| Traffic assessment study findings | <ul style="list-style-type: none"> • Traffic study was conducted on 25.03.2024 on State Highway SH-214 near the plant site, which connects Chillakallu to Konakanchi. The raw material and finished product are transported by rail and road. National Highway (NH-65) connects Hyderabad to Vijayawada and Vishakhapatnam, with a distance of 1.21 km from the cement plant. • Raw materials - 20 % by road and 80 % by rail • Final products (cement) - 70 % by road and 30 % by rail • Existing PCU is 504 PCU/hr during 08:00 to 09:00AM on SH 214 and existing level of service (LOS) is: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <tr> <td>State Highway-214, which connects Chillakallu to Konakanchi,</td> <td>504</td> <td>1200</td> <td>0.42</td> <td>C (Good)</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • PCU load after proposed project will be 504 (Existing) + 13 (Additional) PCU/hr and level of service (LOS) will be: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <tr> <td>State Highway-214, which connects Chillakallu to Konakanchi,</td> <td>504+13 =517</td> <td>1200</td> <td>0.43</td> <td>C (Good)</td> </tr> </tbody> </table> <p>* Note: Capacity as per IRC-106:1990 Guide line for capacity for roads.</p> <p>Conclusion: The level of service will Good after including additional traffic due to proposed project.</p> <p>EMP MEASURES</p> <ul style="list-style-type: none"> • Closed trucks are employed for transport of Materials/Products • Trucks Pollution Under Control (PUC) are employed | Road | V (Volume in PCU/hr.) | C (Capacity in PCU/hr.) | Existing V/C Ratio | LOS | State Highway-214, which connects Chillakallu to Konakanchi, | 504 | 1200 | 0.42 | C (Good) | Road | V (Volume in PCU/hr.) | C (Capacity in PCU/hr.) | Proposed V/C Ratio | LOS | State Highway-214, which connects Chillakallu to Konakanchi, | 504+13 =517 | 1200 | 0.43 | C (Good) |
| Road | V (Volume in PCU/hr.) | C (Capacity in PCU/hr.) | Existing V/C Ratio | LOS | | | | | | | | | | | | | | | | | |
| State Highway-214, which connects Chillakallu to Konakanchi, | 504 | 1200 | 0.42 | C (Good) | | | | | | | | | | | | | | | | | |
| Road | V (Volume in PCU/hr.) | C (Capacity in PCU/hr.) | Proposed V/C Ratio | LOS | | | | | | | | | | | | | | | | | |
| State Highway-214, which connects Chillakallu to Konakanchi, | 504+13 =517 | 1200 | 0.43 | C (Good) | | | | | | | | | | | | | | | | | |

| Period | Emissions |
|-----------------|--|
| | <ul style="list-style-type: none"> Monitoring of trucks to ensure compliances such as covering of trucks by tarpaulin, avoiding spillage on roads etc. <p>PARKING ARRANGEMENTS</p> <p>Existing in an area of 5 Ha (50 % space for free movement and 50 % for 400 vehicles) outside plant area for Parking facility.</p> <p>PARKING AREA IN THE PLANT</p> <p>All facilities such as canteen, toilets, rest rooms, etc. provided for truck drivers.</p> |
| Flora and fauna | <p>There are no National Parks/Wild life Sanctuaries/Eco Sensitive Zones/Biosphere Reserves, Migratory Corridors of Wild Animals within 10 km radius of the study area.</p> <p>There are 4 Nos. of Schedule – I species reported in the study area as per Wild Life (Protection) Amendment, 2022. To protect these Schedule – I Fauna, TRCL have prepared the Wildlife conservation plan with total budget of Rs. 101.25 Lakhs.</p> <p>The Wildlife Conservation Plan is approved by Principal Chief Conservator of Forests (WL) and Chief Wildlife Warden, AP vide Rc. No. 21024/16/2022/WL-2 dated 11.06.2024 with a financial outlay of Rs. 101.25 Lakhs, which is already paid as Rs. 35.0 lakh on 29.11.2024 & Rs. 66.25 lakh on 02.01.2025.</p> <p>In addition to above, TRCL has deposited Rs. 15.00 lakhs for development of Butterfly Park near Mulapadu road of Vijayawada Range of NTR Division, Vijayawada under CSR activity for the year 2023-24.</p> <p>The approval and monitoring of implementation status of the Wildlife Conservation Plan fall within the statutory mandate of the Forest Department, and compliance is ensured as per the conditions stipulated by the competent authority.</p> <p>TRCL requested to provide the details of implementation status of wildlife conservation plan to PCCF vide letter dated 15.11.2025 and 16.12.2025. The current implementation status will be furnished as and when communicated by the Forest Department.</p> |

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

Cement Plant:

- ✓ No solid waste generated.
- ✓ Dust collected from Pollution control Equipment - Recycled back to the process

Colony:

Solid waste generated from colony and industrial canteen is disposed after segregating the waste into bio-degradable and non-degradable. Bio degradable waste is composted (in vermi-compost pits and in bio-gas plant) and non-degradable waste is disposed to vendors.

Sewage treatment Plant: Sludge - Completely used as manure in the Plantation work

HAZARDOUS WASTE:

| Sl. No. | Name of Hazardous Waste | Stream | Quantity | | Method of Disposal |
|---------|--------------------------|---------------------|--------------------|--------------------|---|
| | | | Existing | After Expansion | |
| 1 | Hi-chrome grinding media | 17 of Schedule-IV | 260 TPA | 320 TPA | Return back to the supplier for recycling |
| 2 | Waste oil | 5.1 of Schedule - I | 500 LPA | 600 LPA | Shall be disposed to the authorized recyclers/ re-Processors through M/s. APEMC (or) co-processing within the industry. |
| 3 | Used Lead Acid Batteries | -- | 200 Nos. per Annum | 250 Nos. per Annum | To authorized dealers on buy-back basis. |

20.1.15 Public Consultation:

The earlier public hearing was held on 28.06.2019 at the Plant Premises under the Chairmanship of the Collector & District Magistrate, Krishna District for Addition of 3rd Kiln (Line-III) for 1.50 MTPA Production (Clinker Production Enhancement from Existing 3.185 MTPA to 4.685 MTPA; Cement Production - Existing 3.65 MTPA (No Change on Expansion) & Addition of Waste Heat Recovery Boilers (7 Nos.) for 27 MW Power Generation & Downsizing of existing 42 MW Thermal Power Generation to 24 MW. 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 28.06.2019, and an amount of Rs.5.0 Cr. out of the project cost (as per Ministry's Office Memorandum vide F.No. 22- 65/2017-1A.III dated 1st May, 2018) was earmarked for Corporate Environment Responsibility (CER) duly considering public hearing issues with a specific condition that CER activities shall be implemented within 2 years.

Status of Commitments from the Public Hearing Held on 28.06.2019 and Action Plan (as of December 2025), Rs. In Lakhs

| S. No | Activity | Year (Rs. Lakhs) | | | | | | | | Total |
|-------|---|------------------|-----------|---------------|--------------|-------------|-----------|----------------------|----------------------|-------|
| | | 2019-2020 | 2020-2021 | 2021-2022 | 2022-2023 | 2023 - 2024 | 2024-2025 | 2025-2026 completed* | 2025-2026 budget ed* | |
| 1 | Development of Jaggayyapet & nearby Hospitals | Physica l No. | - | Covid | 1 | 1 | - | - | 2 | - |
| | | Village | - | Surro undin g | Jagga iahpet | - | - | - | Budaw ada & DP Tanda | - |
| | | Budget Rs Lakh | - | 14.6 | 33.20 | - | - | - | 2.5 | 50.3 |

| S. No | Activity | Year (Rs. Lakhs) | | | | | | | | Total | |
|-------|--|------------------|--|---------------------------------------|-----------------------------|-----------------------------|-------------|--|--------------------------|-------|--|
| | | 2019-2020 | 2020-2021 | 2021-2022 | 2022-2023 | 2023 - 2024 | 2024-2025 | 2025-2026 completed* | 2025-2026 budget ed* | | |
| 2 | Conducting free medical camps in surrounding villages & free medicines | Physica l No. | - | - | - | - | - | - | - | 57.59 | |
| | | Villages | Surrounding | | | | | | | | |
| | | Budget Rs Lakh | 4.0 | 4.28 | 4.82 | 6.49 | 10.0 | 12.0 | - | 16.0 | |
| 3 | Conducting eye testing camps & veterinary camps | Physica l No. | 02 | - | - | - | - | 4 eye camps | 2 veterin ary camps | 5.35 | |
| | | Villages | Surro undin g | - | - | Surrounding | | | | | |
| | | Budget Rs Lakh | 0.95 | - | - | 0.40 | 1.0 | 1.0 | - | 2.0 | |
| 4 | Supply of drinking water through RO plants to surrounding villages | Physica l No. | - | 2 | 1 | 1 | - | - | 3 | 33.11 | |
| | | Village | - | Jayan thipur am & DP Thanda | Nawa bpet | Ravir ala | - | - | Budawa da & Jaggai ahpet | | |
| | | Budget Rs Lakh | - | 12.7 | 2.38 | 3.03 | | | | 15.0 | |
| 5 | Domestic water supply schemes that is construction of water tanks, laying water pipeline networks and providing drinking water to water tankers. | Physica l No. | 4 | 3 | 2 | 2 | 2 | 2 | 5 | 46.52 | |
| | | Village | Jayan thipur am SC Colony, Budawada, Ravir ala & DP Thanda | Jayan thipur am, Budawada & DP Thanda | Jayan thipur am & DP Thanda | Jayan thipur am & DP Thanda | Surrounding | Jayan thipur am (35 KL Water tank) & Ravir ala | Surrounding | | |
| | | Budget Rs Lakh | 5.0 | 1.1 | 2.81 | 13.43 | 0.82 | 14.86 | - | 8.5 | |

| S. No | Activity | Year (Rs. Lakhs) | | | | | | | | Total | | |
|-------|---|------------------|-----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------|--|--|
| | | 2019-2020 | 2020-2021 | 2021-2022 | 2022-2023 | 2023 - 2024 | 2024-2025 | 2025-2026 completed* | 2025-2026 budget ed* | | | |
| 6 | Providing saplings to villages & tree guards | Physical No. | - | - | - | 1 | - | - | - | 2.75 | | |
| | | Village | - | - | | Jayan thipur am | - | - | - | | | |
| | | Budget Rs Lakh | - | - | | 2.75 | - | - | - | | | |
| 7 | Skill development programmes under Apprenticeship, Project work, Trainings shall be given to local educated youth | Physical No. | - | Nearl y 40 stude nts | Nearly 60 studen ts | 171.3 | | |
| | | Village s | - | Surrounding | | | | | | | | |
| | | Budget Rs Lakh | - | 25 | 24.8 | 25.50 | 25 | 25 | 46 | | | |
| 8 | Admission to local students in company school | Physical No. | - | - | - | 680 | 680 | 680 | - | 7.84 | | |
| | | Village s | - | Surrounding | | | | | | | | |
| | | Budget Rs Lakh | - | - | 1.84 | 2 | 2 | 2 | - | | | |
| 9 | Development of temples and worship places | Physical No. | 1 | 2 | | - | - | 1 | 1 | 53.79 | | |
| | | Village s | Surrounding (Lingala) | | - | - | - | Surrounding | | | | |
| | | Budget Rs Lakh | 46.19 | 0.83 | - | - | - | 4.98 | 1.79 | | | |
| 10 | Supply of water to Agriculture Lands surrounding villages | Physical No. | - | - | - | 1 | - | 1 | - | 3.87 | | |
| | | Village s | Surrounding (Jayanthipuram) | | | | | | | | | |
| | | Budget Rs Lakh | - | - | | | | 3.87 | - | | | |
| 11 | Infrastructural facilities | Physical No. | 1 | 2 | - | - | 3 | 2 | - | 102.6 | | |

| S. No | Activity | Year (Rs. Lakhs) | | | | | | | | Total |
|------------------|-----------|------------------|------------------------|-----------|-----------|---|-----------|---------------------|----------------------|---------------|
| | | 2019-2020 | 2020-2021 | 2021-2022 | 2022-2023 | 2023 - 2024 | 2024-2025 | 2025-2026 compl ed* | 2025-2026 budget ed* | |
| | Village s | Ravir ala | Ravir ala & DP Than da | - | - | Surrounding (Jayanthipuram, Agraaharam, Ravirala) | | | - | |
| | | Budget Rs Lakh | 1.53 | 5.98 | - | 18.2 0 | 21.89 | - | 55.0 | |
| Sub Total | | | | | | | | | | 535.02 |

TRCL has submitted an additional CER budget (based on need based activities) of Rs. 150 Lakhs for the proposed expansion. The details are given below:

| S.No | Villages/Activity | Budget in Rs. Lakhs | | |
|-------------------------------|--|----------------------|----------------------|-------|
| | | 1 st Year | 2 nd Year | Total |
| Dharamavarapadu thanda | | | | |
| 1 | Existing Burial ground may be restructured with the water connection and Boundary wall | 2.5 | 0 | 2.5 |
| 2 | Skill Development Programs | 1.0 | 1.0 | 2.0 |
| Jayanthipuram | | | | |
| 3 | Garbage Cleaning Persons, and vehicle should be provided | 3.0 | 0 | 3.0 |
| 4 | Gram panchayat may be strengthened by the funds, so that they can engage the persons | 1.0 | 1.0 | 2.0 |
| Kauthavari Agraaharam | | | | |
| 5 | Street lights in various places in the village - Jaggayyapet by pass road 3 lights, Jayanthipuram cross road- 3 lights, Paleru Bridge 2 lights, Vizag steel plant -2 lights, Omkareswara swamy opposite Devalayam -2 lights, S.C Colony 1 Light, Agraaharam main center -1 light, MPU School inside one light, Anjaneya swamy temple - 1 light | 1.0 | 0 | 1.0 |
| 6 | Upgradation of road to improve the burial ground position, levelling with gravel metal. | 1.0 | 0 | 1.0 |
| 7 | Some of the places where gravel is necessary to improve the road facility they are: Before The MPUP school, Before veterinary hospital, BC burial ground area, Muslim Darga, road leading to Gnagammattalli temple road, bathing ghat, before the house of paritala subbamma garu | 1.0 | 1.0 | 2.0 |
| 8 | Construction of bathing ghat near Omkareswar Ammavari temple | 1.0 | 0 | 1.0 |
| 9 | Construction of Side drains in the village | 1.0 | 0 | 1.0 |
| Ravirala | | | | |
| 10 | School ground flooring | 2.0 | 2.0 | 4.0 |
| 11 | Rooms to be constructed at 1st Floor to keep digital equipment's during the floods | 1.0 | 0 | 1.0 |
| 12 | Alternative arrangement for drinking water, or additional 2 more hand pumps to be dug | 1.0 | 1.0 | 2.0 |
| 13 | Construction of individual toilets need based | 1.0 | 0 | 1.0 |

| S.No | Villages/Activity | Budget in Rs. Lakhs | | |
|---|---|----------------------|----------------------|------------|
| | | 1 st Year | 2 nd Year | Total |
| 14 | Construction of Burial ground along with all facilities | 1.0 | 0 | 1.0 |
| 15 | Construction of side drains and improvement of Drainage system | 6.0 | 6.0 | 12.0 |
| Vedadri | | | | |
| 16 | Skill Development Center to be opened for SHG Groups members for doing some economic activity by the group member | 1.0 | 0 | 1.0 |
| 17 | Field channel roads to be strengthened | 1.0 | 0 | 1.0 |
| 18 | Construction and strengthening of burial ground | 0 | 1.0 | 1.0 |
| 19 | Construction of Pipe line for drinking water | 0 | 1.0 | 1.0 |
| Bandipalem | | | | |
| 20 | Improvement of Drainage system in the village | 1.0 | 0 | 1.0 |
| 21 | Improvement of roads | 1.0 | 0 | 1.0 |
| 22 | Construction of Boundary wall to existing burial ground | 0 | 1.0 | 1.0 |
| Pochampalli | | | | |
| 23 | Kitchen room for the school | 0.5 | 0 | 0.5 |
| 24 | Additional Class room in Upper Primary School | 0 | 2.0 | 2.0 |
| Chillakallu | | | | |
| 25 | Drinking water facility to be improved | 1.0 | 0 | 1.0 |
| 26 | Road to be strengthened | 1.0 | 1.0 | 2.0 |
| Gundupalem | | | | |
| 27 | Drainage facility to be improved | 1.0 | 0 | 1.0 |
| 28 | Street lights to be increased in SC Colony | 0.5 | 0 | 0.5 |
| Seetharamapuram | | | | |
| 29 | Street Lights to be strengthen | 0 | 0.5 | 0.5 |
| 30 | Burial ground to improve with water | 0 | 0.5 | 0.5 |
| Other Places (within 10 km from the plant) | | | | |
| 31 | De-siltation of water bodies in nearby villages | 7.0 | 5.0 | 12.0 |
| 32 | Open Gym in Jaggaiahpeta and nearby school in villages | 20.0 | 2.0 | 22.0 |
| 33 | Gravel material for improving the rural infrastructure includes road development, | 2.0 | 2.5 | 4.5 |
| 34 | Implementation of holistic Digital Development of Govt. Primary schools in nearby villages | 5.0 | 5.0 | 10.0 |
| 35 | Strengthening of road connecting Chillakallu village to Vedadri Temple | 30.0 | 20.0 | 50.0 |
| Total Budget in Rs. Lakhs | | 96.5 | 53.5 | 150 |

20.1.16 The capital cost of the project is Rs. 98.71 Crores and the capital cost for environmental protection measures is proposed as Rs. 17.11 Crores. The expansion is expected to be completed within 3 months from the date of receipt of all the approvals from statutory authorities since it is only modification and upgradation cement plant. TRCL has provided employment to 1915 people (369 Direct and 1546 Indirect (contract)). The details of cost for environmental protection measures is as follows:

| Project Activity Based on Process Plant & Support Services | | | | | |
|--|--|--|--|---------------------|--------------------------|
| Activity | Aspects | Impacts | Mitigation Measures | Budget (Rs. Crores) | |
| | | | | Capital Cost | Recurring Cost per annum |
| Air Pollution - Cement Plant & Thermal Power Plant which includes Clinker Production Transportation of Raw Material, Cement Grinding and Power generation. | <ul style="list-style-type: none"> Emission from Kiln, Dust Emissions Vehicular emissions, Coal Combustion and WHRB | <ul style="list-style-type: none"> Air Pollution, GHG Emissions Improper Fuel Combustions, Electricity consumption, and Ash disposal in haphazard manner. | <ul style="list-style-type: none"> Bag filters – 180 nos (Crusher, coal mill and Cement Mill) ESP for coolers Extension of covered shed for additives & coal Air Pollution Control Equipment for Packer – 4 Upgradation of Bag filters at clinker silos TPP fly ash bag filter Line – III AFR feeding Upgradation of Kiln - I RABH | 12.74 | 1.3 |
| Water is used in cooling system | <ul style="list-style-type: none"> Water Extraction and Waste water discharge | <ul style="list-style-type: none"> Ground water depletion, water pollution | <ul style="list-style-type: none"> Neutralization pit for CPPs (WHRB and TPP) Central Monitoring Basin Additional 8 Rain water Harvesting pits | 0.08 | - |
| Health and Safety Measures | <ul style="list-style-type: none"> Hazard Chemicals, Machinery Operation | <ul style="list-style-type: none"> Worker Injuries, Expose to Harmful substances | <ul style="list-style-type: none"> Health Check-up, Regular safety Training, use of PPEs, Installation of Safety guards and Machinery | - | 0.40 |
| Solid and Hazardous | <ul style="list-style-type: none"> Waste from manufacturing, | <ul style="list-style-type: none"> Land fill accumulation, | <ul style="list-style-type: none"> Recycle packaging | 0.99 | 0.099 |

| Project Activity Based on Process Plant & Support Services | | | | | |
|--|---|--|--|---------------------|--------------------------|
| Activity | Aspects | Impacts | Mitigation Measures | Budget (Rs. Crores) | |
| | | | | Capital Cost | Recurring Cost per annum |
| waste | <ul style="list-style-type: none"> packing and by products use of oil in rotating equipment's | <ul style="list-style-type: none"> Ground water contamination and air pollution Improper handling of waste can lead soil and ground water pollution | <ul style="list-style-type: none"> waste, Use ecofriendly materials and Treat industrial by products Pneumatic ash system for TPP Maintenance of Existing 700 KLD STP Ash handling system Wet ash collection and transportation Controlled waste collections and storage facilities, slag handling, hazardous storage rooms and infrastructures etc. | | |
| Greenbelt Development | <ul style="list-style-type: none"> Land Clearing, Usage of land for industrial activity | <ul style="list-style-type: none"> Air Pollution, Habitat Loss and Noise Pollution | <ul style="list-style-type: none"> To plant native tress all along the Plant Boundary | 1.3 | 0.5 |
| Energy Conservation Measures | <ul style="list-style-type: none"> Energy consumption, Emissions from operations | <ul style="list-style-type: none"> High electricity consumption, high operational costs | <ul style="list-style-type: none"> Solar Lights and LED Lights. Solar Power Plant MV Drives, Variable Frequency Drives, High Tension motors (SPRS System) and | 0.99 | 0.099 |

| Project Activity Based on Process Plant & Support Services | | | | | |
|--|---|--|---|---------------------|--------------------------|
| Activity | Aspects | Impacts | Mitigation Measures | Budget (Rs. Crores) | |
| | | | | Capital Cost | Recurring Cost per annum |
| | | | Compressors | | |
| Wild Life Conservation | • Flora and Fauna species | - | Wild Life Conservation plan | 1.01 | 0 |
| Environmental Monitoring | Air, water, noise, soil, tailings stability | Non-compliance, undetected environmental risks | Regular monitoring (AAQ, stack/fugitive emissions, noise, wastewater, tailings stability), NABL-accredited labs | - | 0.135 |
| Grand Total | | | | 17.11 | 2.533 |

20.1.17 The plant is presently located in an area of 329 Ha own land of TRCL. The required greenbelt as per norms is 33% of the plant area which is about 108.57 Ha. TRCL has developed green belt an area of 130.24 Ha, which is 39.5 % of total plant area with about 2,26,415 saplings with density of 1738 sampling per Ha. TRCL will also take up gap plantation of 99,185 sampling to arrive at the rate of 2500 Per Ha in 130.24 Ha. This activity will be completed by Monsoon end of 2027. Species are planted in consultation with the local DFO. However, to ascertain the extent of greenbelt available within the plant and colony areas, a study was undertaken by M/s. Creative Engineers and Consultants, Chennai. The study indicates that about 174.90 ha of the plant complex area is covered with vegetative cover, of which 136.21 ha falls under the high-density category and 38.69 ha falls under the medium to low-density category.

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

| Sl.No | Description | Earlier EC dated 18.12.2019 | After Expansion | Remarks |
|-------|---|-----------------------------|-----------------|--------------|
| 1 | Land, ha | 329 | 329 | No Change |
| 2 | Raw Material, TPA | | | |
| | Limestone | 65,70,000 | 77,75,586 | 18% increase |
| | Laterite | 2,10,000 | 2,65,450 | 26% increase |
| | Iron Rich Laterite | 2,50,000 | 3,16,000 | 26% increase |
| | Gypsum | 1,80,000 | 2,55,000 | 42% increase |
| | Fly Ash | 9,10,000 | 12,74,000 | 40% increase |
| | Slag | 2,86,000 | 4,00,000 | 40% increase |
| | Coal (Indian or Imported) for Cement Plant – 100% | 6,30,000 | 6,90,000 | 10% increase |
| | Pet Coke (Indian or Imported) for Cement Plant – 100 % | 4,74,666 | 5,18,175 | 9% increase |
| | Coal (Indian or Imported) for Thermal Power Plant – 100 % | 1,10,000 | 1,10,000 | No Change |

| Sl.No | Description | Earlier EC dated 18.12.2019 | After Expansion | Remarks |
|-------|--|-----------------------------|-----------------|------------------------------------|
| 3 | Fresh Water requirement, m ³ /day | 5000 | 5100 | Additional 100 m ³ /day |
| 4 | Power, MW | 58 | 60 | Additional 2 MW |

20.1.19 Pollution Load Assessment

DETAILS OF POLLUTION LOAD OVERALL POLLUTION LOAD – AIR ENVIRONMENT, Kg/day

| S. No | Source | Present | After Expansion | |
|-------|-------------------|-----------------|-----------------|-----------|
| | | | Phase - 1 | Phase - 2 |
| 1 | Kiln-I | PM | 384 | 477 |
| | | SO ₂ | 1280 | 1591 |
| | | NOx | 7679 | 9544 |
| 2 | Kiln-II | PM | 311 | 388 |
| | | SO ₂ | 1037 | 1293 |
| | | NOx | 8297 | 10348 |
| 3 | Kiln-III | PM | 255 | 332 |
| | | SO ₂ | 1274 | 1661 |
| | | NOx | 7644 | 9971 |
| 4 | Cooler – I | PM | 111 | 139 |
| 5 | Cooler - II | | 178 | 218 |
| 6 | Cooler - III | | 113 | 159 |
| 7 | Coal Mill - I | | 52 | 52 |
| 8 | Coal Mill - II | | 96 | 96 |
| 9 | Coal Mill - III | | 40 | 38 |
| 10 | Cement Mill - I | | 36 | 36 |
| 11 | Cement Mill - II | | 36 | 36 |
| 12 | Cement Mill – III | | 240 | 240 |

OVERALL POLLUTION LOAD – AIR ENVIRONMENT, Kg/day

| Parameter | Present, kg/day | After Expansion, kg/day | |
|----------------------------------|--------------------|-------------------------|-----------|
| | | Phase - 1 | Phase - 2 |
| Particulate Matter, PM | 1,851 | 2,212 | 2,239 |
| Sulphur Dioxide, SO ₂ | 3,591 | 4,545 | 4,635 |
| Oxides of Nitrogen, NOx | 23,621 | 29,863 | 30,395 |

WATER ENVIRONMENT:

The wastewater generated from domestic activities is treated in the Sewage Treatment Plant (STP) and the treated effluent quality complies with the Consent for Operation (CFO) prescribed standards. The analysis of wastewater quality before and after treatment confirms effective reduction in BOD, COD, TSS, and Oil & Grease, ensuring compliance with regulatory norms.

The pollution load calculations for wastewater parameters have been carried out considering treated effluent concentrations and wastewater flow rates. The assessment indicates that the treated effluent pollution loads remain within permissible limits.

QUALITY OF WASTE WATER FROM STP

| S. No | Parameters | Results | | CTO Prescribed Standards |
|-------|------------------------------|-----------|------------|--------------------------|
| | | STP Inlet | STP Outlet | |
| 1 | pH | 6.37 | 6.82 | 5.5- 9.0 |
| 2 | Oil & Grease, mg/l | 11.0 | 8.8 | 10 |
| 3 | Total Suspended Solids, mg/l | 120 | 68 | <100 |
| 4 | BOD for 3 days at 27°C, mg/l | 50 | 24 | 30 |
| 5 | COD, mg/l | 184 | 96 | <1000 |

POLLUTION LOAD CALCULATIONS FROM STP

| Sl. No | Parameters | STP Outlet Results | Waste water Generation, m³/day | Pollution Load, kg/day Existing | After Expansion | |
|--------|------------------------------|--------------------|--------------------------------|---------------------------------|-----------------|-----------|
| | | | | | Phase - 1 | Phase - 2 |
| 1 | Oil & Grease, mg/l | 8.8 | 580 | 5.104 | No Change | No Change |
| 2 | Total Suspended Solids, mg/l | 68 | 580 | 39.44 | No Change | No Change |
| 3 | BOD for 3 days at 27°C, mg/l | 24 | 580 | 13.92 | No Change | No Change |
| 4 | COD, mg/l | 96 | 580 | 55.68 | No Change | No Change |

QUALITY OF WASTE WATER FROM ETP

| S. No | Parameters | Results | | Standards |
|-------|------------------------------|------------|--|-----------|
| | | ETP Outlet | | |
| 1 | pH | 8.42 | | 5.5-9.0 |
| 2 | Total Dissolved Solids, mg/l | 928 | | 2100 |
| 3 | Total Suspended Solids, mg/l | 50.6 | | 100 |
| 4 | COD, mg/l | 62.3 | | 250 |
| 5 | BOD for 3 days at 27°C, mg/l | 23.6 | | 100 |
| 6 | Oil & Grease, mg/l | 1.1 | | 10 |

POLLUTION LOAD CALCULATIONS FROM ETP

| Sl. No | Parameters | ETP Outlet Results | Waste water Generation, m ³ /day | Pollution Load, Kg/day | After Expansion | |
|--------|------------------------------|--------------------|---|------------------------|-----------------|-----------|
| | | | | | Phase - 1 | Phase - 2 |
| 1 | Total Dissolved Solids, mg/l | 928 | 700 | 649.6 | No Change | No Change |
| 2 | Total Suspended Solids, mg/l | 50.6 | 700 | 35.42 | | |
| 3 | COD, mg/l | 62.3 | 700 | 43.61 | | |
| 4 | BOD for 3 days at 27°C, mg/l | 23.6 | 700 | 16.52 | | |
| 5 | Oil & Grease, mg/l | 1.1 | 700 | 0.77 | | |

There is no change in wastewater generation quantity from the power plant and domestic sources due to the proposed expansion. Treated wastewater continues to be reused within the plant premises, supporting the zero liquid discharge.

SOLID & HAZARDOUS WASTE:

The increase in solid waste generation, primarily in the form of fine dust collected from air pollution control equipment, is directly related to the increased production capacity. The entire quantity of fine dust is being recycled back into the cement manufacturing process, ensuring zero solid waste disposal.

Hazardous waste generation such as used oil, spent grinding media, and used lead acid batteries shows a marginal increase post-expansion. All hazardous wastes are being handled, stored and disposed of strictly in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, through authorized recyclers / re-processors or co-processing, ensuring no adverse environmental impact.

SOLID WASTE GENERATION, TPD

| S. No | Type of Solid waste | Quantity | | | Handling/storage | Mitigation measure Recycle / reuse/ utilization | | |
|-------|---|----------|-----------------|-----------|--------------------------------------|---|--|--|
| | | Existing | After Expansion | | | | | |
| | | | Phase - 1 | Phase - 2 | | | | |
| 1 | Fine dust collected in air pollution control equipment, TPD | 1,703 | 1845 | 2,153 | Recycled within Cement plant circuit | Recycled back to process | | |

HAZARDOUS WASTE GENERATION

| Sl. No. | Name of Hazardous Waste | Quantity | | | Method of Disposal | |
|---------|-------------------------------|----------|-----------------|-----------|---|--|
| | | Existing | After Expansion | | | |
| | | | Phase - 1 | Phase - 2 | | |
| 1 | Hi-chrome grinding media, TPA | 260 | 290 T | 320 T | The existing practice of returning back to the supplier for recycling will be continued | |
| 2 | Waste oil, LPA | 500 | 600 | 600 | Is being Disposed to the authorized recyclers/ re-Processors through M/s. APEMC (or) co-processing within the industry and same will be continued | |

| | | | | | |
|---|--------------------------|--------------------|--------------------|--------------------|---|
| 3 | Used Lead Acid Batteries | 200 Nos. per Annum | 250 Nos. per Annum | 250 Nos. per Annum | Is being disposed to authorized dealers on buy-back basis and same will be continued. |
|---|--------------------------|--------------------|--------------------|--------------------|---|

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

20.1.21 **Certified compliance report from Regional Office, MoEFCC**

As per the CCR dated 23.12.2024, the Regional Office (RO), MoEF&CC identified several Environmental Clearance (EC) conditions as partially complied with or non-complied. In response, TRCL submitted the Action Taken Report (ATR) on 19.07.2025. In this context, TRCL submitted a request to MoEF&CC on 15.11.2025 seeking issuance of the closure report. Subsequently, MoEF&CC, New Delhi, vide communication dated 19.11.2025, advised the Sub-Regional Office, Vijayawada, to furnish its comments with reference to the closure report. Further, as the validity of the earlier CCR dated 23.12.2024 was limited to one year from the date of inspection, in accordance with the Ministry's Office Memorandum dated 08.06.2022 and since the previous inspection had completed one year, the project was re-inspected on 23.12.2025 by Sub-Office, Vijayawada, MoEF&CC. Accordingly, a detailed point-wise compliance status of EC conditions was prepared and issued vide E-File No. SO/VIJ/EPA/EC-1/101/04-57/2024/304 dated 01.01.2026. Certified EC Compliance reports is submitted. All Points are complied as per latest CCR dated 01.01.2026 issued by Sub-Office, Vijayawada, MoEF&CC.

20.1.22 **CRITERIA FOR ESTABLISHMENT OF INDUSTRIAL PLANT AS PER G S R 85 (E) dated 30.01.2025**

| | | Category | Distance | Remarks | Remarks/Safeguard measures |
|-----|--|--------------|----------------------------|---|---|
| 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 | Red category | beyond five hundred meters | The nearest water body is at paleru located with a distance of 0.90 km in SW direction. | - |
| (b) | from the settlement, educational institute, worship place, archaeological monuments, national park, reserve forest, heritage site, | Red category | beyond five hundred meters | The nearest Settlement is Dharmavarapadu Thanda located with a distance of 0.03 km in E direction and Chillakallu (0.46 km, NE) from the plant boundary | <ul style="list-style-type: none"> These two villages are falling in the Crosswind of the project site. The extensive greenbelt developed form a barrier between the plant and the villages. Further the greenbelt which is developed as barrier along the road by TRCL prevents the dust from reaching the villages. |

| | | | | | |
|-----|---|--|--|---|--|
| | | | | | <ul style="list-style-type: none"> • TRCL has included the above two villages for regular monitoring as part of Environmental Monitoring program. |
| (c) | The natural or storm drain passing through the location of industrial unit shall not be disturbed | | There are no Natural streams which are passing through the project site. | - | |

20.1.23 COMPLIANCE STATEMENT ON APPLICABILITY OF OM's

| Sl. No | Description | Applicable OM | Applicability | Compliance | Remarks |
|--------|----------------------------------|--|---|----------------|---|
| 1 | Land acquisition | OM No.22-76/2014-IA-III dated 07.10.2014 and 20.02.2025 | i. a confirmation from the State Government, or their authorized agency indicating their intent to acquire land for the Project as indicated in the EIA report of the Project ii. In case the land is being acquired through private negotiations with the land Owners, credible documents showing the intent of the land owners to sell the land for the proposed project | Not Applicable | The proposal is for expansion within the existing Vacant land premises. No additional land is required. The Existing land was total owned by The Ramco cement Limited (TRCL). |
| 2 | Validity of baseline data | F. No. IA3-22/10/2022-IA.III [E 177258] dated 08.06.2022 | Three years | Complied | Baseline Period: 01.03.2024 to 31.05.2024 |
| 3 | Validity of CCR | F. No. IA3-22/10/2022-IA.III [E 1772581] | One Year | Complied | The latest Certified Compliance Report (CCR) for the |

| Sl. No | Description | Applicable OM | Applicability | Compliance | Remarks |
|--------|-----------------------|--|---------------|----------------|---|
| | | | | | earlier EC, issued by Sub-Office, Vijayawada, MoEFCC vide E-File No. SO/VIJ/EPA/EC-1/101/04-57/2024/304 dated 01.01.2026 and date of site visit on 23.12.2025. |
| 4 | Validity of PH | F. No. IA3-22/10/2022-IA.III [E 177258] dated 08.06.2022 | Three years | Not Applicable | <p>Public Hearing was conducted earlier for this project on 28.06.2019.</p> <p>As per this MoEF&CC OM dated 11.04.2022 Public Consultation is exempted up to 40% and the project should have gone through the Public Hearing process, at least once for its existing capacity on which expansion is being sought.</p> |

Written submission by the PP:

20.1.24 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 22.01.2026 through email dated 22.01.2026 submitted the following information:

| S. No | Additional information sought | Reply |
|-------|--|--|
| 1. | The Project Proponent shall furnish phase-wise production details along with raw material requirements and corresponding pollution load calculations | The details of phase-wise production details along with raw material requirements and corresponding pollution load calculations is submitted and uploaded at relevant paragraphs above. |
| 2. | Project Proponent is requested to revise the budget allocation for the CER. | TRCL has revised the CER budget is from Rs. 77 Lakhs to Rs.150 Lakhs which is 1.5% of total project cost (Rs. 98.71 Crores) for the proposed expansion. The same is updated at relevant paragraph above. |

Deliberations by the Committee

20.1.25 The Committee noted the following:

1. The instant proposal is for expansion of Cement Plant Capacity through increase in production of Clinker from 4.685 to 5.922 Million TPA, Cement (OPC, PPC, PSC, CC & SRC) from 3.65 to 5.11 Million TPA and Waste Heat Recovery Power plant from 27 MW to 28.5 MW through modernization and upgradation of process units, i.e. upto 40% in two phases **[Phase-I:** Clinker from 4.685 to 5.622 MTPA, Cement (OPC, PPC, PSC, CC & SRC) from 3.65 to 4.38 MTPA, with existing CPP (24 MW) and WHRB (27 MW) & **Phase-II:** Clinker from 5.622 to 5.922 MTPA, Cement (OPC, PPC, PSC, CC & SRC) from 4.38 to 5.11 MTPA, WHRB from 27 to 28.5 MW with existing 24 MW CPP] under para 7(ii) of EIA Notification, 2006 [OM dated 11.04.2022]. **The instant proposal is for expansion proposed under Phase-I.**
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 Cement Plant 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 Phase-I i.e. Clinker from 4.685 to 5.622 MTPA, Cement (OPC, PPC, PSC, CC & SRC) from 3.65 to 4.38 MTPA, with existing CPP (24 MW) and WHRB (27 MW) in the instant case.**
3. RCL had established Cement Plant at Kumaraswamy Raja Nagar (KSR Nagar) in the Year 1986. The plant was expanded with two process lines (Lines I & II). The existing project was accorded environmental clearance vide Ir.no. J-11011/403/2006-IA-II (I) dated 18.12.2019 for enhancement of Clinker Production from existing 3.185 MTPA to 4.685 MTPA by installation of additional kiln (1.50 MTPA) without changing existing cement production (3.65 MTPA) & Power Generation (27 MW) through Waste Heat Recovery Boilers (3x9MW) and Downsizing of existing Thermal Power Generation 42 MW to 24 MW. Further EC amendment was issued vide No. J-11011/403/2006/IA. II(I) dated 15.07.2020 for amendment in specific condition. Consent to Operate for the existing units was accorded by Andhra Pradesh State Pollution Control Board vide Order no. APPCB/VJA/VJA/488/HO/CFO/2017- dated 02.12.2021. The validity of CTO is up to 31.01.2027.
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 land area of the project is 329 hectares, comprising 266.94 hectares of private land and 62.06 hectares of revenue land, all of which is under the possession of The Ramco Cements Limited. No additional land will be required for the proposed enhancement.
9. Dharmavarapadu Thanda (0.03 km, E), Chillakallu (0.46 km, NE), Jayanthipuram (0.95 km, SW), Jaggayapeta (1.83 km, WNW) exists 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.
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. Paleru is at a distance of 0.9 km in SW of the project site along with other 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.
12. **The Committee noted that limestone being primary raw material for cement manufacture is proposed to be sourced entirely from the proponent's existing and proposed captive limestone mines located adjacent to and in the vicinity of the cement plant. PP has reported that the project is not interlinked. It was observed that the total limestone requirement of the plant after expansion is estimated at about 7.78 MTPA, which will be met from five captive mines for which valid Environmental Clearances have already been obtained, with an approved cumulative capacity of 10.0 MTPA. The mines are located at distances ranging from adjacent to about 3.24 km, and limestone transportation is proposed through established modes including road, dedicated concrete roads, and rail, as applicable. The Committee took note that sourcing of limestone from these EC-approved captive mines is adequate to meet the post-expansion requirement. The Committee also opined that PP may adopt E-vehicles for product/ limestone/ raw material transportation in a phased manner, and to start with, it shall achieve a target of 10% EV adoption within 3 years, as a part of overall transportation fleet.**
13. The existing total water requirement of the integrated facilities is 5,000 m³/day, of which about 1,030 m³/day is utilized for cement plant operations and is met from dewatered mine seepage water. PP reported that they obtained NOC from APWALTA, Government of Andhra Pradesh, for utilization of 7,000 m³/day of mine seepage water, and that the renewal application submitted

on 23rd August, 2024 is under process. For the proposed expansion, an additional 100 m³/day of water is required; and, the net fresh water requirement after expansion will marginally increase from 5,000 m³/day to 5,100 m³/day. The EAC opined that the PP secure the required approval from the appropriate authority, as applicable.

14. The Committee deliberated upon the baseline environmental data and the incremental pollution load arising due to the proposed 40% capacity expansion, including detailed assessment of air, water, solid, and hazardous waste pollution loads. The Committee observed that while there is a marginal increase in emission loads post-expansion, the same remains within permissible limits and is adequately addressed through existing and proposed pollution control measures. It was further noted that wastewater generation remains unchanged with continued reuse under zero liquid discharge, and solid and hazardous wastes are proposed to be managed through recycling, reuse, and authorized disposal in compliance with applicable rules. Accordingly, the EAC found it satisfactory to appraise the instant proposal under para 7(ii) of EIA Notification, 2006.
15. It is reported that four Schedule—I fauna species have been reported within the study area as per the Wild Life (Protection) Amendment Act, 2022. To safeguard these species, TRCL has prepared a Wildlife Conservation Plan with a total financial outlay of Rs. 101.25 lakhs, which has been duly approved by the Principal Chief Conservator of Forests (WL) and Chief Wildlife Warden, Andhra Pradesh, and the entire amount has already been deposited. Additionally, Rs. 15.00 lakhs has been contributed under CSR for the development of a Butterfly Park in the Vijayawada Range. The implementation and monitoring of the Wildlife Conservation Plan fall under the statutory mandate of the Forest Department, and compliance is being ensured as per approved conditions. The EAC opined that the recommendations of the approved plan shall be ensured to be strictly implemented in coordination with the State Forest Department.
16. **The Committee noted that earlier public hearing was conducted on 28th June, 2019 for the existing project. The Committee took cognisance of the CER Action Plan, wherein Rs. 5.00 crore was earmarked for implementation of CER activities within a period of two years as per the earlier EC condition. The proponent informed that implementation of the action plan could not be completed within the stipulated timeline due to the COVID-19 pandemic; however, the CER activities have continued beyond the said period. The Committee further noted that the proponent has incurred an expenditure of Rs. 5.35 crore, which is more than the committed amount, covering healthcare, drinking water supply, skill development, infrastructure, and other community welfare activities. After deliberation, the EAC agreed with the submission of the project proponent and took the same on record. The Committee also deliberated on the additional plan prepared on need based activities and found it satisfactory.**
17. 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.

18. PP reported that TRCL has developed green belt in an area of 130.24 Ha, which is 39.5 % of total plant area with about 2,26,415 saplings with density of 1738 sampling per Ha. TRCL will also take up gap plantation of 99,185 sampling to arrive at the rate of 2500 Per Ha in 130.24 Ha. This activity will be completed by Monsoon end of 2027. Species are planted in consultation with the local DFO. However, to ascertain the extent of greenbelt available within the plant and colony areas, a study was undertaken by M/s. Creative Engineers and Consultants, Chennai. The study indicates that about 174.90 ha of the plant complex area is covered with vegetative cover, of which 136.21 ha falls under the high-density category and 38.69 ha falls under the medium to low-density category. The EAC opined that greenbelt shall be developed and maintained as committed.
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 Committee deliberated upon the certified compliance report of IRO, MoEF&CC and found the compliance status satisfactory.
21. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.
22. 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.
23. 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.
24. 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:

- 20.1.26 In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal **subject to uploading of written submission on PARIVESH portal** for grant of Environment Clearance under the provisions of para 7(ii) of EIA Notification, 2006 **for the proposed Phase-I i.e. Clinker from 4.685 to 5.622 MTPA, Cement (OPC, PPC, PSC, CC & SRC) from 3.65 to 4.38 MTPA, with existing CPP (24 MW) and WHRB (27 MW)** 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. Dharmavarapadu Thanda (0.03 km, E), Chillakallu (0.46 km, NE), Jayanthipuram (0.95 km, SW), Jaggayapeta (1.83 km, WNW) exists 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.
- 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. Paleru is at a distance of 0.9 km in SW of the project site along with other 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.
- vii. For the proposed expansion, an additional 100 m³/day of water is required; thus, the net fresh water requirement after expansion will increase from 5,000 m³/day to 5,100 m³/day which will be met from dewatered mine seepage water. PP shall secure the required approval from the appropriate authority, as applicable. No groundwater shall be abstracted for industrial activities.
- 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 and as committed. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC. As committed, TRCL shall maintain green belt in an area of 130.24 Ha, which is 39.5 % of total plant area with about 2,26,415 saplings with density of 1738 sampling

per Ha. TRCL shall also take up gap plantation of 99,185 sapling to arrive at the rate of 2500 Per Ha in 130.24 Ha. This activity will be completed by Monsoon end of 2027.

- 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 during appraisal shall be satisfactorily implemented. The action plan with budgetary allocation of Rs.1.5Crores shall be implemented in accordance to the Ministry's OM dated 30.09.2020 and progress shall be submitted 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.
- xvii. PP shall maintain emissions from bag filter below 20 mg/Nm³.

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. 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 30 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 NOx burners as primary measures and SCR /NSCR technologies as secondary measure to control NOx emissions.
- xviii. The emission norms applicable for the cement plant shall be adhered to.
- xix. Dioxin and Furane monitoring shall be carried out once in six months at cement kiln stack.
- xx. DeSOx system shall be provided dry type. NOx 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 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 monitorable 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 / stakeholders. 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. 20.2

20.2 Expansion under 7(ii) (a) Cum Amendment in the existing steel plant by increasing the manufacturing facility of MS Billets in SMS Unit from 1,35,000 TPA to 1,62,000 TPA by installation of an additional Induction Furnace of 25 tonnes with existing 3 x 15 tonnes Induction furnace, Rolling and Strip Mill from 72,000 TPA to 84,000 TPA with addition of slag crusher unit of 10 TPH along with existing facility of Captive power plant of capacity 15 MW (WHRB – 8 MW and 7 MW) and removing the facilities of 25 Ton AOD (2nd Stage expansion as per OM dated 11.04.2022) and amendment to omit the EC condition no.12 in EC Letter vide file no.- IA-J-11011/253/2020-IA.II(I) dated 10.02.2023 by M/s. Satyam Iron & Steel Company Private Limited, located at Mangalpur Industrial Estate, PO & PS – Raniganj, District – Paschim Bardhaman, West Bengal-Consideration of EC.

[Proposal no.: IA/WB/IND1/523638/2025: File No. IA-J-11011/253/2020-IA-II (I)]

[Consultant: Grass Roots Research & Creation India (P) Ltd.; Valid upto: 16.08.2027]

20.2.1 M/s Satyam Iron and Steel Company Private limited has made an online application vide proposal No. IA/WB/IND1/523638/2025, dated 24.11.2025 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 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.

20.2.2 Name of the EIA consultant: M/s. Grass Roots Research & Creation India (P) Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/24-27/RA 0348; valid upto 16.08.2027].

Details submitted by Project proponent

20.2.3

The project of M/s Satyam Iron & Steel Co. Private Limited located at Plot No. G-7, B-7/11 & G-7/A, Mangalpur Industrial Estate, PO & PS – Raniganj, District Paschim Bardhaman, West Bengal is for Phase-II expansion to increase the production of MS Billets in SMS Unit from 1,35,000 TPA to 1,62,000 TPA by removing AOD and installing of additional Induction Furnace of 25 tonnes with the existing 3 x 15 tonnes Induction furnace and the capacity of Rolling and Strip Mill from 72,000 TPA to 84,000 TPA (40% w.r.t 60,000 TPA i.e 2nd phase expansion) and addition of new facility of slag crusher (10 TPH) along with existing facility of Captive power plant of capacity 15 MW (WHRB – 8 MW and 7 MW) amendment in EC condition to omit the installation of Ultra Nox burner.

20.2.4

Details of EDS:

| S.No. | Queries | Reply |
|-------|---|---|
| (i) | On perusal of the kml file, it is observed that some part of project facilities (in the center) are falling outside the project area. PP shall submit the revised kml file demarcating the project boundaries properly as per the geographical coordinates. | Updated KML file has been uploaded to the relevant section. |
| (ii) | Last EC was granted on 10.02.2023 for expansion under para 7(ii). PP shall submit the facility wise progress made as per the granted EC, duly supported with CTO issued by SPCB. | <p>We would like to inform you that, Earlier, project was started in 2002, for production of Sponge Iron of total capacity 60,000 TPA with 2 x 100 TPD DRI Kiln after obtaining Consent to Establish (CTE) and Consent to Operate (CTO) from West Bengal Pollution Control board, West Bengal</p> <p>Thereafter, Expansion was proposed in 2019 to increase the production of sponge iron from 60,000 TPA to 1,20,000 TPA with addition of 200 TPD DRI Kiln and installation of SMS Unit for MS Billet Production (1,35,000 TPA), Rolling Mill (60,000 TPA) and power plant (15 MW). Environment clearance for the same was obtained from MoEF&CC, New Delhi vide File No. J-11011/253/2020-IA.II(I) dated 06.08.2021. Copy of environment clearance is submitted.</p> <p>CTE for the installation of units w.r.t. EC dated 06.08.2021 was obtained on 08.09.2021 vide Memo no. 615-2N-74/2019(E). Copy of CTE is submitted.</p> <p>CTO for production of additional 60,000 TPA Sponge Iron through 200 TPD DRI Kiln, 90,000 TPA MS Billets through 2 x 15 TPA Induction Furnace and 60,000 TPA Rolling Mill obtained vide Memo No. WPBA/Red(BWN)/Cont(339)/2002 Part II dated 29.07.2022 and valid till 30.06.2027 is submitted and for remaining units as per</p> |

| S.No. | Queries | Reply |
|-------|--|--|
| | | <p>EC dated 06.08.2021 <i>viz.</i> for production of remaining 45,000 TPA MS Billets through 15 tonnes IF, 60,000 TPA sponge Iron with 200 TPD DRI Kiln and 15 MW CPP CTO was obtained vide Memo No. WBPCB/4816718/2024 dated 03.04.2024 and valid till 30.06.2027 is submitted.</p> <p>Thereafter, again expansion was proposed in the plant for increasing the production capacity of Rolling Mill from 60,000 TPA to 72,000 TPA and installation of Argon Oxygen Decarburization (AOD) of 25 Ton for Stainless Steel Products. Environment clearance for the same was obtained from MoEF&CC, New Delhi under clause 7(ii) (a) of EIA Notification 2006 vide File No. IA-J-11011/253/2020-IA.II(I) dated 10.02.2023. Copy of EC is submitted.</p> <p>After that EC Corrigendum was obtained for correction in boiler configuration and land area vide file no. IA-J-11011/253/2020-IA.II(I) dated 23.01.2024. Copy of EC Corrigendum is submitted.</p> <p>CTE for the installation of units (rolling mill) w.r.t. EC dated 10.02.2023 was obtained on 27.06.2024 vide CTE no. WBPCB/489429412024 dated 27.06.2024. Copy of CTE is submitted.</p> |
| (iii) | <p>To support its proposal for expansion as per the provisions of OM dated 11-04-2022 under para 7(ii) of EIA Notification, 2006, PP shall submit the a compliance in a tabular form of Para 4 and 5 of Ministry's O.M. dated 11.04.2022 pertaining to guidelines for granting EC under para 7(ii) to check whether the instant proposal qualifies to be appraised under para 7(ii) (a)</p> | <p>We would like to inform you that compliance of para 4 and 5 of OM dated 11-04-2022 under para 7(ii) of EIA Notification, 2006 is submitted.</p> |
| (iv) | <p>PP shall ensure that the Addendum EIA report <i>inter alia</i> cover the following points:</p> <ol style="list-style-type: none"> a. Implementation status of the existing Environmental Clearance, duly supported through CTO. b. Details of the earlier public consultation conducted along with its proceedings and compliance status c. Summary of issues raised during the earlier Public Consultation and its implementation status. | <p>We would like to inform you addendum EIA includes all information related to existing Environmental Clearance with CTO support, summarize previous public consultations and compliance, and present current baseline environmental conditions. It also includes original EC capacities, layouts, resources, pollution loads, and AAQ modelling with those proposed for expansion, including any intermediate ECs or CTOs. The report also includes detailed production changes, predicted ground-level concentrations, and risk assessment with necessary mitigation measures for the</p> |

| S.No. | Queries | Reply |
|-------|---|---|
| | <p>d. Existing baseline conditions based on the periodic environmental monitoring program</p> <p>e. A tabular comparison of base EC (mentioning configuration and capacities) on which expansion is sought, Any ECs obtained/implemented in between (basis OM dated 11-04-2022), CTO obtained covering Proposed Expansion or Modernization or Change of product mix vis-à-vis with granted EC capacity along with percentage of increase in production.</p> <p>f. Proposed plant layout vis-à-vis with layout for which Environmental Clearance was granted.</p> <p>g. Proposed resources requirement (Land/raw materials/water/power) vis-à-vis with granted Environmental Clearance</p> <p>h. Pollution load calculations (Air/Water/Solid & hazardous waste/traffic) vis-à-vis with granted Environmental Clearance</p> <p>i. AAQ modelling predicting maximum Ground Level Concentration vis-à-vis with GLC max for which Environmental Clearance was granted</p> <p>j. Risk assessment with mitigation measures if any, required for the proposed Expansion or Modernization or Change of product mix.</p> | <p>proposed expansion or modification. EIA reported has been uploaded at relevant section on parivesh portal.</p> |
| (v) | <p>The baseline data for PM10 and PM2.5 during baseline collection is recorded high. PP shall submit the reasons for the same along with the list of industries within the study area and mitigation measures to minimize the same</p> | <p>During the study period, levels of PM₁₀ and PM_{2.5} were observed towards higher side at the project site, primarily because our project is located within the Manglapur Industrial Area, where several other industries operate in close proximity. Additionally, the project site is situated near NH-19 (0.35 km away), which also contributes to the higher particulate matter levels. However, all recorded values remain within the limits prescribed by CPCB/MoEF&CC.</p> <p>To further minimize environmental impacts, we have installed an ESP, bag</p> |

| S.No. | Queries | Reply |
|--------|---|--|
| | | filters, secondary fume extraction system, and developed three-tier greenbelt within project site. Further list of industries within 10 km study area is submitted. Mitigation Measures taken for Air Environment is submitted. |
| (vi) | The uploaded Review Report is dated 23.03.2024 (site visit on 30.11.2023). As per Ministry's OM dated 08.06.2022, CCR issued by the concerned Authority shall be valid for a period of one year from the date of inspection of the project. It is also noted that there are multiple partial compliances in the recent Review report dated 03-02-2025. Therefore, PP shall submit a fresh CCR from concerned IRO as per OM dated 08.06.2022 | We have submitted request to obtain Certified compliance report for the existing unit from IRO, Kolkata, subsequently site visit was conducted on 05.08.2025 for issuance of CCR. Certified Compliance Report was obtained from IRO, Kolkata vide File No. 102-684/21/EPE/335 dated 21.10.2025. Copy of CCR is submitted. |
| (vii) | Details of Raw material and its linkage and its mitigation measure during transportation needs to be submitted under section for requirement of minerals involved in the project. | Details of raw materials required during project, transportation of raw materials and mitigation measures that will be followed during implementation are included at relevant section on parivesh portal. |
| (viii) | PP needs to submit the details of activities/ECs/CTEs/CTOs in tabular form showing its details of ECs/CTEs/CTO vis-à-vis production capacity since grant of CTE/CTO to check the violation, if any. All old CTEs/CTOs/ HW Authorization to be uploaded to verify the violation, if any. | We would like to inform you that, Details of activities, ECs/CTE/CTO in tabular form is submitted. |
| (ix) | Details of land involved in the project [Total area of the land; Type of land; Details of possession of land in the name of PP; Copy of proof of land with area of the land; Conversion of land for industrial purpose from the State Government] needs to be submitted and uploaded the data accordingly. | We would like to inform you that the proposed expansion will take place within the existing land area of 8.30 ha. No additional land is required for the proposed expansion. Land ownership documents are submitted. |
| (x) | PP may update the presentation to include the compliance to Std. ToR conditions | Updated presentation including ToR Compliance is uploaded on Parivesh Portal |
| (xi) | A compliance statement of OM applicable to the project may also be uploaded | OM dated 07.02.2014 and 20.02.2025), OM dated 14.02.2022, and OM dated 08.06.2022 are applicable for our above said project. Hence, compliance statement of OM are submitted. |

20.2.5 The existing project involving DRI kiln (2x100 TPD) for production of Sponge Iron was initially established based on the NOC accorded by West Bengal Pollution Control Board (WBPCB) on 7/8/2001 and 24/4/2003. EC was not obtained under the provisions of EIA Notification, 2006. PP

further obtained environmental clearance from MoEF&CC vide File No- J- 11011/253/2020-IA.II.(I), dated 06.08.2021 for expansion in production from 30,000 TPA of MS Ingots to 1,20,000 TPA of MS Ingots/ Billets and from 48,000 TPA to 1,20,000 TPA of Twisted and ribbed bars. CTO for production of additional Sponge Iron, MS Billets and Rolling Mill was obtained vide Memo No. WPBA/Red(BWN)/Cont(339)/2002 Part II dated 29.07.2022 and valid till 30.06.2027. For remaining units as per EC dated 06.08.2021 viz. CTO was obtained vide Memo No. WBPCB/4816718/2024 dated 03.04.2024 and valid till 30.06.2027. Further, Environment clearance for expansion in the production capacity of Rolling mill from 60,000 TPA to 72,000 TPA along with installation of Argon Oxygen Decarburization (AOD) of 25 Ton for Stainless Steel Products (Wire Rod, Strip, Flats, Rounds, Rebars, Angle and Channel etc.) with existing facilities for production of Sponge Iron Production 1, 20,000 TPA (1 x 200 Ton & 2 x 100 Ton), Captive Power Plant of 15 MW (WHRB- 1 x 22 TPH & 2 x 10 TPH = 8 MW and AFBC- 1 x 30 TPH = 7 MW) and Induction Furnace (3 x 15 Ton) for production of 1,35,000 TPA (M.S & S.S Billets) under the provisions of para 7(ii) of EIA Notification, 2006 was obtained from MoEF&CC, New Delhi vide File No. IA-J-11011/253/2020-IA.II(I) dated 10.02.2023. This was followed by EC Corrigendum obtained for correction in boiler configuration and land area vide file no. IA-J-11011/253/2020-IA.II(I) dated 23.01.2024. CTE for the installation of units (rolling mill) w.r.t. EC dated 10.02.2023 was obtained on 27.06.2024 vide CTE no. WBPCB/489429412024 dated 27.06.2024.

20.2.6 Implementation status of the existing EC:

| S. No. | Particulars | Units | As per EC Dated | Implementation Status as on | Production as per CTO |
|----------------------------------|--|--|---|---|--|
| Units started before 2006 | | | | | |
| 1. | DRI Kiln -I | (100 TPD) | Not Applicable | Unit is Operational | Sponge Iron 60000 MT per year |
| 2. | DRI Kiln -II | (100 TPD) | Not Applicable | Unit is Operational | |
| Activities After 2006 | | | | | |
| 1. | Expansion in plant with addition of :- ➤ DRI Kiln ➤ SMS Unit (3 x 15 Induction Furnace with caster) ➤ Rolling Mill ➤ CPP (WHRB#8M W + AFBC#7M W) | ➤ 200 TPD ➤ 1,35,000 TPA Billets ➤ 60,000 TPA ➤ 15 MW | Obtained vide File No. :- J-11011/253/2020-IA.II(I) dated 06.08.2021 | Unit is Operational | 1. 2x15 Ton IF for MS Billets of 90,000 TPA with 60,000 TPA rolling mill 2. 1x15 Ton IF for MS Billets of 45,000 TPA, Sponge Iron of 60,000 TPA with 200 TPD DRI Kiln and 15 ME power plant |
| 2 | Expansion In The Production Capacity of- ➤ Rolling Mill | From 60,000 | Obtained vide File No. :- IA-J-11011/253/2020-IA.II(I) dated 10.02.2023 | CTE vide letter no. WBPCB/4894294/2024 dated 27.06.2024 for 60,000 TPA to 72000 TPA | Not Obtained |

| | | | | | |
|--|-----------------------|----------------------------|--|---|--|
| | ➤ Installation of Aod | TPA to 72000 TPA 25 Ton | | Rolling Mill (Planning for AOD Dropped) | |
|--|-----------------------|----------------------------|--|---|--|

20.2.7 The Status of compliance of earlier EC was obtained from Regional Office, Kolkata vide File No. 102-684/21/EPE/335 dated 21.10.2025 in the name of M/s Satyam Iron and Steel Company Private Limited. As per the report conditions have been complied with.

20.2.8 The proposal was considered during the 20th meeting of the EAC for Industry-I sector held during 22nd -23rd January, 2026. The deliberation and recommendations of EAC are as follows:

Deliberations by the Committee

20.2.9 The Committee noted the following:

- i. The Committee deliberated upon the proposal and noted that the project proponent has applied for Phase-II expansion under the provisions of para 7(ii) of the EIA Notification, 2006, in accordance with the Ministry's O.M. dated 11th April, 2022. The Committee observed that the Phase-I expansion, which was earlier granted EC under para 7(ii) on 10.02.2023, is not yet operational, as the Consent to Operate (CTO) for the said phase is still under process. In this context, the Committee expressed concern that although a Certified Compliance Report (CCR) has been submitted indicating full compliance, such compliance cannot be conclusively assessed when the Phase-I expansion has not been commissioned and operated, as the implementation and effectiveness of EC conditions can only be evaluated after operationalisation through CTO and post-operation monitoring.
- ii. The Committee further noted that, as per the Ministry's O.M. dated 11.04.2022, Phase-II expansion proposals can be considered only after successful implementation and operation of Phase-I expansion, duly supported by valid CTO. In view of the above, the Committee was of the opinion that appraisal of the instant Phase-II expansion proposal at this stage is premature. Accordingly, the EAC asked the PP to first obtain CTO, followed by a fresh Certified Compliance Report duly incorporating the operational status of Phase-I expansion.

Recommendations of the Committee

20.2.10 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.

Consideration of TOR Proposal

Agenda No. 20.3

20.3 **Proposed Greenfield Steel Plant comprising of I/O Beneficiation Plant-2.4 MTPA (throughput), Pellet Plant-1.8 MTPA, Sponge Iron of 11,88,000 TPA, Hot Billets/Ingots through EAF -10,29,600 TPA, Rolling Mill with 90% Hot charging & 15 % RHF (Strip mill – 3,00,000 TPA, Structural Mill -3,00,000 TPA, TMT mill-3,00,000 TPA), Producer Gas Plant**

for Pellet plant & Rolling mill of 5 x 6500 Nm³ /hr, PCI Unit – 1 x 5 TPH, SEAFs of 2 x 9 MVA (FeSi-14,000 TPA / FeMn- 40,000 TPA / SiMn-28,000 TPA / FeCr30,000 TPA/ Pig Iron-48,000 TPA), Briquetting Plant of 200 kg/hr, WHRB Power Plant-6x18 MW, CFBC Power Plant- 2x50 MW, Fly Ash Brick unit of 1,00,000 Bricks/Day] by M/s. Pera Mining Industries LLP, located at Bharda & Chilhati Khurd Villages, Dondilohara Tehsil, Balod District, Chhattisgarh-Consideration of TOR.

**[Proposal no.: IA/CG/IND1/554750/2025: File No. IA-J-11011/386/2025-IA-II (IND-I)]
[Consultant: Pioneer Enviro Consultants Private Limited; Valid upto: 09.09.2029]**

20.3.1 The Member Secretary informed the Committee that the Project Proponent, vide email dated 19th January, 2026, has submitted a request for withdrawal of the proposal, citing changes in the project layout and allied aspects, and expressed their intent to submit a fresh proposal after incorporating the said changes.

20.3.2 Taking note of the request received from the PP and the justification submitted for withdrawal, the Committee deliberated on the matter and agreed with the request of the PP. Accordingly, the EAC recommended acceptance of the withdrawal of the proposal, in accordance with the prescribed procedure, to enable the PP to submit a revised proposal afresh.

Consideration of Amendment in EC Proposal

Agenda No. 20.4

20.4 Amendment in EC titled Increasing of production capacity of Axles from 75,000 axles/annum (36,750 Tonnes) to 1,65,000 axles/annum (80,850 Tonnes) & Existing capacity of Wheel shop of 2,00,000 no's/annum (97,000 Tonnes) by M/s Rail Wheel Factory, located at Puttenahalli Village & Yelahanka Village, Doddaballapur Road, Yelahanka Hobli, Bengaluru North Taluk, Bengaluru District, Karnataka - Consideration of Amendment in EC.

**[Proposal no.: IA/KA/IND1/564617/2026: File No. IA-J-11011/130/2022-IA-II (IND-I)]
[Consultant: AM Enviro Engineers, Bangalore; Valid upto: 06.06.2028]**

20.4.1 M/s Rail Wheel Factory has made an online application vide proposal no. IA/KA/IND1/564617/2026 dated 07.01.2026 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 Letter No. IA-J-11011/130/2022-IA-II(IND-I) dated 23.04.2024 w.r.t rationalisation of the approved wheel production capacity by expressing it in tonnes per annum (TPA) instead of number of wheels, without any change in physical configuration, production process, technology, resource requirement, or pollution load as approved under the existing Environmental Clearance.

Details submitted by Project proponent

20.4.2 The project was earlier granted environment clearance vide Letter No. IA-J-11011/130/2022-IA-II(IND-I) dated 23.04.2024 for Increasing the production capacity of Axles shop from 75,000 no's/annum (36,750 TPA) to 1,65,000 no's/annum (80,850 TPA) & Existing capacity of Wheel Shop of 2,00,000 no's/annum (97,000 TPA).

20.4.3 The instant proposal is for seeking amendment in EC obtained from MoEF&CC vide Letter No. IA-J-11011/130/2022-IA-II(IND-I) dated 23.04.2024 w.r.t rationalisation of the approved wheel production capacity by expressing it in tonnes per annum (TPA) instead of number of wheels, without any change in physical configuration, production process, technology, resource requirement, or pollution load as approved under the existing Environmental Clearance as detailed below:

| Sl. No. | Para of EC issued by MoEF & CC | Details as per the EC | To be revised/read as | Justification/reasons |
|---------|-----------------------------------|--|---|---|
| 1. | Subject | Increasing of production capacity of Axles from 75,000 axles/ annum (36,750 Tonnes) to 1,65,000 axles/ annum (80,850 Tonnes) & Existing capacity of Wheel shop of 2,00,000 no's/ annum (97,000 Tonnes) by M/s. Rail Wheel Factory, located at Puttenahalli Village & Yelahanka Village, Doddaballapur Road, Yelahanka Hobli, Bengaluru North Taluk, Bengaluru District, Karnataka | Increasing of production capacity of Axles from 75,000 axles/ annum (36,750 Tonnes) to 1,65,000 axles/ annum (80,850 Tonnes) & Existing capacity of Wheel shop of 97,000 Tonnes by M/s. Rail Wheel Factory, located at Puttenahalli Village & Yelahanka Village, Doddaballapur Road, Yelahanka Hobli, Bengaluru North Taluk, Bengaluru District, Karnataka | The amendment is proposed only to express the approved wheel production capacity in tonnes per annum (TPA) instead of number of wheels, as wheel dimensions and unit weight vary based on product specifications. This change will provide operational flexibility while ensuring that there is no increase in approved capacity, no change in process, and no additional environmental impact. |
| 2. | Para 2 of EC issued by MoEF & CC | Name of the Project: Increasing of production capacity of Axles from 75,000 axles/ annum (36,750 Tonnes) to 1,65,000 axles/ annum (80,850 Tonnes) & Existing capacity of Wheel shop of 2,00,000 no's/ annum (97,000 Tonnes) | Name of the Project: Increasing of production capacity of Axles from 75,000 axles/ annum (36,750 Tonnes) to 1,65,000 axles/ annum (80,850 Tonnes) & Existing capacity of Wheel shop of 97,000 Tonnes | All operations shall remain within the limits prescribed under the existing Environmental Clearance. |
| 3. | para 6i of EC issued by MoEF & CC | The instant project is for increasing the production capacity of Axles shop from 75,000 no's/ annum | The instant project is for increasing the production capacity of Axles shop from 75,000 no's/ annum | |

| Sl. No. | Para of EC issued by MoEF & CC | Details as per the EC | To be revised/read as | Justification/reasons |
|---------|------------------------------------|--|---|-----------------------|
| | | (36,750 TPA) to 1,65,000 no's/ annum (80,850 TPA) & Existing capacity of Wheel Shop of 2,00,000 no's/ annum (97,000 TPA) . | (36,750 TPA) to 1,65,000 no's/ annum (80,850 TPA) & Existing capacity of Wheel Shop of 97,000 TPA . | |
| 4. | Para 6ii of EC issued by MoEF & CC | M/s Rail wheel factory was established in the year 1984 engaged in manufacturing of Rail Wheels – 2,00,000 no's/ annum (97,000 Tonnes) and Axles – 75,000 no's/ annum (36,750 Tonnes) i.e. before EIA notification 1994 & 2006. | M/s Rail wheel factory was established in the year 1984 engaged in manufacturing of Rail Wheels – 97,000 Tonnes and Axles – 75,000 no's/ annum (36,750 Tonnes) i.e. before EIA notification 1994 & 2006. | |

20.4.4 **Justification for Amendment:** The amendment is proposed only to express the approved wheel production capacity in tonnes per annum (TPA) instead of number of wheels, as wheel dimensions and unit weight vary based on product specifications. This change will provide operational flexibility while ensuring that there is no increase in approved capacity, no change in process, and no additional environmental impact. All operations shall remain within the limits prescribed under the existing Environmental Clearance.

20.4.5 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

20.4.6 The Committee noted the following:

1. The project was earlier granted environment clearance vide Letter No. IA-J-11011/130/2022-IA-II(IND-I) dated 23.04.2024 for Increasing the production capacity of Axles shop from 75,000 no's/annum (36,750 TPA) to 1,65,000 no's/annum (80,850 TPA) & Existing capacity of Wheel Shop of 2,00,000 no's/annum (97,000 TPA).
2. The instant proposal is for seeking amendment in EC obtained from MoEF&CC vide Letter No. IA-J-11011/130/2022-IA-II(IND-I) dated 23.04.2024 w.r.t rationalisation of the approved wheel production capacity by expressing it in tonnes per annum (TPA) instead of number of wheels, without any change in physical configuration, production process, technology, resource requirement, or pollution load as approved under the existing Environmental Clearance as detailed in relevant para above.
3. The PP reported that the amendment is proposed only to express the approved wheel production capacity in tonnes per annum (TPA) instead of number of wheels, as wheel dimensions and unit weight vary based on product specifications. This change will provide

operational flexibility while ensuring that there is no increase in approved capacity, no change in process, and no additional environmental impact. All operations shall remain within the limits prescribed under the existing Environmental Clearance.

4. The Committee further observed that the amendment does not involve any physical expansion, change in process or technology, increase in resource requirement, or enhancement in pollution load, and that all operations shall continue to remain within the limits prescribed under the existing Environmental Clearance. Accordingly, the Committee found the technical justification for the amendment to be satisfactory.

Recommendations of the Committee:

20.4.7 After deliberations, the Committee **recommended** amendment in EC obtained from MoEF&CC vide Letter No. IA-J-11011/130/2022-IA-II(IND-I) dated 23.04.2024 w.r.t rationalisation of the approved wheel production capacity by expressing it in tonnes per annum (TPA) instead of number of wheels, without any change in physical configuration, production process, technology, resource requirement, or pollution load as approved under the existing Environmental Clearance as detailed in relevant para above. The other terms and conditions of the EC dated 23.04.2024 shall remain unchanged.

Consideration of Corrigendum in Environmental Clearance

Agenda No. 20.5

20.5 **EC corrigendum for proposed project for manufacturing of Aluminum Rod - EC Grade/Alloy Grade and Aluminum Conductors by M/s. Polycab India Limited, located at Survey No. 377/2, Village - Kachigam, Dist. Daman, U.T. of Dadra & Nagar Haveli, Daman & Diu-Consideration of corrigendum in EC.**

[Proposal no.: IA/DN/IND1/565640/2026: File No. IA-J-11011/6/2025-IA-II (IND-I)]

20.5.1 M/s. Polycab India Limited has made an online application vide proposal no.: IA/DN/IND1/565640/2026 dated 15.01.2026 along with the application in prescribed format - Form 13 (CAF, Form – I Part A, B and C) and sought for corrigendum in Environment Clearance accorded by the Ministry vide F. No. IA-J-11011/6/2025-IA-II(IND-I) dated 24.11.2025 w.r.t. rectifying the product description in the issued EC by including “Alloy Grade” along with “Aluminium Rod – EC Grade,” so as to read as “Aluminium Rod – EC Grade/Alloy Grade,” without any change in approved capacity, process, or environmental impact.

Details submitted by Project proponent

20.5.2 M/s. Polycab India Limited had applied for EC vide proposal no. IA/GJ/IND1/551214/2025 dated 03.10.2025 and the EC was issued by MoEF&CC vide F. No. IA-J-11011/6/2025-IA-II(IND-I) dated 24.11.2025 in the name of M/s. Polycab India Limited for production of Aluminium Rods (15000 MT/Month) and Aluminium Conductors (8,100 MT/Month).

20.5.3 The instant proposal is for seeking corrigendum in Environment Clearance accorded by the Ministry vide F. No. IA-J-11011/6/2025-IA-II(IND-I) dated 24.11.2025 w.r.t. rectifying the product description in the issued EC by including “Alloy Grade” along with “Aluminium Rod – EC Grade,” so as to read as “Aluminium Rod – EC Grade/Alloy Grade,” without any change in approved capacity, process, or environmental impact. The details are as follows:

| EC. Point No. | Point description as printed in EC Letter | Point correction required in EC Letter |
|--|---|--|
| EC ANNEXURE-III (Table of Congiuration/ Capacity | Aluminium Rod – EC Grade | Aluminium Rod – EC Grade/ Alloy Grade |

20.5.4 **Justification:** PP has reported that the product “Aluminium Rod – EC Grade/Alloy Grade” was indicated at all relevant sections of the Parivesh portal and in the documents submitted along with the EC application. However, in the issued Environmental Clearance, the product name was inadvertently mentioned only as “Aluminium Rod – EC Grade,” omitting the Alloy Grade component.

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

Deliberation by the Committee

20.5.6 The Committee noted the following:

- i. M/s. Polycab India Limited had applied for EC vide proposal no. IA/GJ/IND1/551214/2025 dated 03.10.2025 and the EC was issued by MoEF&CC vide F. No. IA-J-11011/6/2025-IA-II(IND-I) dated 24.11.2025 in the name of M/s. Polycab India Limited for production of Aluminium Rods (15000 MT/Month) and Aluminium Conductors (8,100 MT/Month).
- ii. The instant proposal is for seeking corrigendum in Environment Clearance accorded by the Ministry vide F. No. IA-J-11011/6/2025-IA-II(IND-I) dated 24.11.2025 w.r.t. rectifying the product description in the issued EC by including “Alloy Grade” along with “Aluminium Rod – EC Grade,” so as to read as “Aluminium Rod – EC Grade/Alloy Grade,” without any change in approved capacity, process, or environmental impact as detailed in relevant para above.
- iii. PP has reported that the product “Aluminium Rod – EC Grade/Alloy Grade” was indicated at all relevant sections of the Parivesh portal and in the documents submitted along with the EC application. However, in the issued Environmental Clearance, the product name was inadvertently mentioned only as “Aluminium Rod – EC Grade,” omitting the Alloy Grade component.
- iv. **However, the EAC, upon perusal of the documents shared through email prior to the appraisal of the said EC proposal, noted that the PP/ Consultant had themselves omitted the explicit mention of “Alloy Grade” in the relevant submission, and did not sought correction of relevant MoM. The Committee further noted that the PP/ Consultant acknowledged the omission as an inadvertent error on their part and accepted responsibility for the same.**
- v. The EAC noted that there is no change in configuration / capacity of units in granted EC.

Recommendations of the Committee

20.5.7 After deliberations, the Committee **recommended** the proposal for corrigendum in EC granted vide letter F. No. IA-J-11011/6/2025-IA-II(IND-I) dated 24.11.2025 w.r.t. rectifying the product description in the issued EC by including “Alloy Grade” along with “Aluminium Rod – EC Grade,” so as to read as “Aluminium Rod – EC Grade/Alloy Grade,” without any change in approved capacity, process, or environmental impact as detailed in relevant para above. The other terms and conditions of the EC letter dated 24.11.2025 shall remain the same.

Additional Agenda Item

Agenda No. 20.6

20.6 Deliberation on issue related to discrepancy in survey number 118, 136 &137 between M/s. MSPL (vide F. No. IA-J-11011/329/2021-IA-II (IND-I) dated 21.11.2023) and M/s. RPCL (vide F. No. IA-J-11011/39/2021-IA.II (IND-I) dated 30.01.2023)

20.6.1 Background of the Issue:

1. The Ministry had granted Environmental Clearance to *M/s MSPL Limited* vide letter File No. IA-J-11011/329/2021-IA-II(IND-I) dated 21.11.2023 for establishment of a 5.0 MTPA Iron Ore Processing Plant and 3.0 MTPA Pellet Plant over an area of 26.44 ha of private land at Somalapura Village, Sandur Taluk, Ballari District, Karnataka.
2. The Ministry had also issued Environmental Clearance to *M/s Resources Pellets Concentrates Pvt. Ltd. (RPCL)* vide letter F. No. IA-J-11011/39/2021-IA.II (IND-I) dated 30.01.2023 for setting up a pellet plant in the same village.
3. Subsequent to issuance of ECs, *M/s MSPL Limited* represented to the Ministry vide letters dated 13.02.2024, 10.10.2024 and 10.01.2025, stating that the Survey Nos. 118 (1.75 acres), 136 (5.15 acres) and 137 (6.77 acres) form part of their industrially converted land, and the same are already under their ownership and possession. However, these survey nos. are mentioned in the EC of *M/s RPCL*. Hence, these survey nos. may be excluded from the EC of *M/s RPCL*.
4. In order to verify the factual position, the Ministry, sought clarity on the ownership of the referred survey nos. from Principal Secretary (Revenue), Government of Karnataka and the District Collector, Ballari vide Office Memoranda dated 05.04.2024 and 19.11.2024.
5. Vide letter dated 24-05-2025, the O/o Principal Secretary, Revenue Department, Govt. of Karnataka stated that, as per documents and the report of the Deputy Commissioner, Bellary District, the lands in Survey No.118 (1.75 acres), Survey No.136 (5.15 acres) and Survey No.137 (6.77 acres) are in the name and ownership of *M/s MSPL Limited*.
6. The underlying issue pertains to mention of same survey nos. in two ECs. Further, the said survey nos. are mentioned in the CTE/ CFE of *M/s RPCL* issued by Karnataka State Pollution Control Board, whereas the actual ownership of land lies with *M/s MSPL*, as per letter dated 24-05-2025 Revenue Department, Govt. of Karnataka. The said survey nos. are not included in the CTE/ CFE of *M/s MSPL*.
7. The matter is related to harmonisation of the land details and in ECs. Subsequent to grant of ECs, the projects are required to operate as per the actual ownership of land, duly recorded in EC. In

this matter, while same survey nos. are included in two ECs based on the documents submitted at the time of appraisal, the successive representations from M/s MSPL emphasised on lawful ownership and possession of referred survey nos., and requested for correct reflection of land in EC due to which CTE/ CFE is also held up.

8. Accordingly, the Ministry decided to refer the matter to EAC for their perusal, and resolution.
9. The matter was placed before the Expert Appraisal Committee (Industry-I) in its 13th meeting held on 14th-15th October, 2025, for examination and advice on the appropriate course of action. The details of the previous deliberations and recommendations are as below (*verbatim*):

Deliberations by the Committee

13.12.8 *The Committee took note of the background, documentary evidences placed on record, and communications from both the project proponents. After due discussions, the EAC observed that:*

1. *The letter dated 24-04-2025 from the Revenue Department clearly establish that Survey Nos. 118, 136 and 137 are in possession and ownership of M/s MSPL Limited.*
2. *The Committee also noted that the overlapping inclusion of these survey numbers in both ECs arose due to the time gap between the issuance of preliminary notification under Section 28(1) and its subsequent modification under Section 28(3).*
3. *Both, M/s RPCL and M/s MSPL were called during EAC meeting on 15.10.25, and both project proponents have furnished consistent positions supported by government documents.*
4. *Thus, the EAC opined that M/s RPCL or M/s MSPL Limited are claiming the lands based on the credible documents in their possession, and hence, there is no fault on part of either entity. However, the letter dated 24-04-2025 clearly establish the current ownership and possession of Survey Nos. 118, 136 and 137, which is in favour of M/s MSPL Limited. The Committee noted that the Revenue Department of Government of Karnataka, being the competent authority for land ownership, have a final say in the matters related to land ownership. The EAC emphasised that EC records must mirror the current and verified land ownership, as per State Revenue Department records, to avoid any ambiguity in future compliance or monitoring.*
5. *The EAC, after detailed deliberation, and after talking to both M/s RPCL and M/s MSPL during deliberations, opined that the said land parcel may be excluded from the EC of M/s RPCL. Further, as M/s RPCL has already taken CTE on the basis of EC wherein these 3 land parcels are included. Accordingly, they may get their CTE also amended, subsequent to EC amendment. M/s MSPL may include these parcels of land in the CTE, accordingly.*
6. *The EAC, however, also noted that any further change in ownership of the referred survey nos. would need to be correctly reflected in the EC records, and hence, both the PPs shall be liable to bring this to the Ministry, as and when such change happens. Further, if any direction received from any of the Honourable court(s) in future regarding these 3 parcels of land, the order of the Honourable court will be binding for the both.*
7. *In view of the foregoing, EAC asked M/s RPCL to apply for the corrections/ amendment within 30 days after the recommendation of the committee*

Recommendations of the Committee:

13.12.9 *In view of the foregoing and after detailed deliberations, the Committee noted the ownership and possession of Survey Nos. 118, 136 and 137 in favour of M/s MSPL Limited, as established through documents issued by the competent State authorities. The Committee further advised M/s Resources Pellets Concentrates Pvt. Ltd. (RPCL) to*

submit a proposal through the PARIVESH Portal for amendment of their Environmental Clearance to exclude Survey Nos. 118, 136 and 137 from their project area and correspondingly revise the total land area, within 30 days from the date of issue of these minutes.

Developments after EAC Meeting:

20.6.2 The 13th EAC MOM was published in PARIVESH portal on 24.10.2025. M/s RPCL vide letter dated 24.11.2025 submitted a representation to Member Secretary SEIAA, with a copy marked to MoEFCC, and the excerpts are provided below:

“Therefore, it is requested that instead of RPCL seeking deletion of the said survey number from its EC dated 30.01.2023, it will be in the fitness of things and in accordance with the rights of the parties as well as the State's intention to acquire the said survey numbers that a condition similar to the one that has been added in the EC dated 21.11.2023 issued to MSPL may also be added to our EC dated 30.01.2023, wherein it is mentioned that the survey numbers in question, though a part of the EC can be utilized subject to the acquisition by the State Government and/or orders of any competent Court.

Admittedly, the acquisition proceedings are under process. However, assuming that they do not fructify and the disputed survey numbers are not allotted to RPCL, in that event RPCL will approach this Ld. Committee seeking amendment to its EC. Till such time, the additional condition may be put in place as the same takes care of the interest of all the parties without causing any prejudice to their rights and contentions. The Ld. State Environment Impact Assessment Authority, Karnataka has already taken a similar view, which in the humble submission of the undersigned is a step in the right direction, and has imposed a condition that the project proponent shall abide by the orders of the Hon'ble Courts and/or of the State Government in respect of the disputed survey numbers.”

20.6.3 M/s RPCL did not submit an EC amendment proposal through PARIVESH Portal for amendment of the Environmental Clearance to exclude Survey Nos. 118, 136 and 137 from their project area, in compliance with the recommendations of EAC; however, it submitted a representation dated 24-11-2025 to Member Secretary SEIAA, with a copy marked to MoEFCC (as mentioned in Para-10 above).

20.6.4 M/s. MSPL vide email dated 17.12.2025, 16.01.2026 and 22.01.2026, and during appraisal submitted that:

- *The 30 days period from the date of publication of EAC minutes was over on 24.11.2025, and till now RCPL has not submitted an application on PARIVESH portal, as required to comply with the EAC recommendations*
- *MSPL had approached KSPCB, Bangalore as per EAC recommendation, and requested for inclusion of said survey numbers (Nos: 118,136 & 137) in the CTE/ CFE; however, KSPCB has asked for submission of amended EC of RCPL, excluding the Survey numbers: 118, 136 & 137. Accordingly, amendment to the EC of RCPL may be issued deleting the Survey Nos: 118,136 & 137, with copy to KSPCB, Bangalore, enabling completion of balance project work.*
- *MSPL informed that there are no active cases pending as on date with respect to Sy. Nos 118,136 &137 Somalapur Village, Sandur Taluk, Ballari District between MSPL Limited and RCPL, in any courts.*

- *The Writ Petition (WP NO. 106737/2025) filed by MSPL challenging the issuance of notices under Sec.28 (2) KIAD Act by KIADB has been disposed of on 31.10.2025 wherein KIADB accepted that the same have been issued by mistake.*
- *MSPL has received an amendment from the State Environment Impact Assessment Authority (SEIAA) on 06.11.2025 which pertains exclusively to DHPC and transportation of iron ore, and has no connection with Survey Numbers 118, 136, and 137 of Somalapur Village, Sandur Taluk, Karnataka.*
- *MSPL submitted the Record of Rights (ROR) for the Sy. No. 118, 136 & 137, Somalapura Village, Sandur Taluk, Ballari District, Karnataka before EAC, and circulated the same vide email dated 22.01.2026.*

20.6.5 Considering that the EAC had made specific direction in previous meeting, the matter was again placed before the Expert Appraisal Committee (Industry-I) in its 20th meeting held on 22nd – 23rd January, 2026, for apprising the committee on the action taken subsequent to recommendations of EAC.

Deliberations by the Committee

20.6.6 During the deliberations, the EAC invited both the entities viz. M/s RPCL and M/s MSPL with a view to provide an additional opportunity to make their submissions. Based on the submissions made by M/s RPCL and M/s MSPL, the Committee noted the following:

- i. M/s RPCL neither sought any corrections in the MoM of 13th EAC held on 14th-15th October, 2025 nor did it apply for amendment of EC in EC letter dated 30.01.2023 for deletion of land parcels falling under Survey Nos. 118 (1.75 acres), 136 (5.15 acres) and 137 (6.77 acres), as recommended by EAC, which could have helped in removal of ambiguity in two ECs w.r.t. mention of same survey nos. and harmonisation of the land details based on actual ownership.
- ii. M/s MSPL submitted the Record of Rights (ROR) for the Sy. No. 118, 136 & 137, Somalapura Village, Sandur Taluk, Ballari District, Karnataka.
- iii. Inspite of agreeing on clear timelines on applying for EC amendment during previous EAC deliberation dated 14/15-Oct-2025, M/s RPCL did not apply on PARIKESH Portal within 30 days.
- iv. **M/s RPCL, during instant appraisal, submitted that it does not require the land parcels in reference, and it has no-objection in the exclusion of Sy. Nos. 118, 136 & 137 from its EC. However, on the contrary, it also did not submit EC amendment application for exclusion of Sy. Nos. 118, 136 & 137. Hence, the above submissions are not supported by corresponding action on M/s RPCL's part.**
- v. As per the letter dated 24-04-2025 from the O/o Principal Secretary, Revenue Department, Govt. of Karnataka, which is the Competent Authority of the State w.r.t. land ownership, the lands in Survey No.118 (1.75 acres), Survey No.136 (5.15 acres) and Survey No.137 (6.77 acres) are in the name and ownership of M/s MSPL Limited.
- vi. Adequate opportunity has been given to undertake correction in land through EC amendment to M/s RPCL in its EC dated 30.01.2023.
- vii. M/s RPCL and M/s MSPL agreed with the EAC's view that there is a need for harmonisation of land records in ECs of both the entities. M/s RPCL also mentioned that it does not require said land parcels.
- viii. In view of the fact that adequate opportunity was given to M/s RPCL, and that the inaction by M/s RPCL in this matter has resulted in continuation of a discrepancy in the EC approval letters,

and duly noting that the EC records do not match with the Govt. of Karnataka land records (*as per their letter dated 24-04-2025*), the EAC noted that this discrepancy need to be rectified, at the earliest. Hence, the EAC strongly recommended that Ministry may take *suo-moto* cognizance of the issue and align the EC records with the actual land ownership status submitted by O/o Principal Secretary, Revenue Department, Govt. of Karnataka by excluding the survey nos.118 (1.75acres), 136 (5.15acres) and 137 (6.77acres) from EC of M/s RPCL.

ix. The EAC further opined that M/s RPCL may explain in detail, with documentary evidences, as to why the timelines prescribed through EAC recommendations were not adhered to, and an EC amendment proposal was not applied through PARIVESH.

Recommendations

20.6.7 In light of the foregoing, the EAC made following recommendations:

- a) **Harmonisation & Rectification of EC Land Records:** The EAC recommends that the Ministry may ensure harmonisation of land particulars in the ECs of both M/s RPCL and M/s MSPL, so that the EC records are consistent with each other and with the authenticated land ownership records, in order to remove regulatory ambiguity. Accordingly, the Ministry may take *suo-moto* cognizance of the discrepancy in land particulars and initiate necessary action to align the Environmental Clearance (EC) dated 30.01.2023 issued to M/s RPCL with the verified land ownership records of the Government of Karnataka, by excluding Survey Nos. 118 (1.75 acres), 136 (5.15 acres) and 137 (6.77 acres), Somalapura Village, Sandur Taluk, Ballari District, Karnataka, which stand in the name of M/s MSPL Limited, as confirmed by the Office of the Principal Secretary, Revenue Department, Government of Karnataka vide letter dated 24.04.2025.
- b) **Consideration of inaction and seeking explanation** - The EAC recommends that in view of the inaction on EAC's recommendations, M/s RPCL may explain to the Committee in detail, with documentary evidences, as to why the timelines prescribed through EAC recommendations were not adhered to, and an EC amendment proposal was not applied through PARIVESH portal.
- c) **Follow-up by Karnataka SPCB/ CPCB** - The EAC recommended that subsequent to the exclusion of survey nos. from the EC of M/s RPCL, the Karnataka SPCB/ CPCB should also act accordingly, and reflect the changes in their respective approvals (CTE/ CFE/ CTO/ CFO).

DAY 2 : JANUARY 23, 2026 [FRIDAY]

Consideration of Environmental Clearance Proposals

Agenda No. 20.7

20.7 **Expansion of production facilities of Induction Furnace with CCM from existing 59,500 TPA to 289,400 TPA MS Billets along with total Rerolled Steel Production capacity of 272,000 TPA, out of which 242,000 TPA through Hot Charging and 30,000 TPA through existing BRF based rolling mill by M/s Agrawal Channel Mills Private Ltd, located at Plot No.34-35, Phase-II, Industrial Growth Centre Siltara, Raipur, Chhattisgarh-Consideration of EC.**

[Proposal no.: IA/CG/IND1/473103/2024; File No. IA-J-11011/298/2023-IA-II (IND-I)]
 [Consultant: Anacon Laboratories Pvt. Ltd.; Valid upto: 09.05.2028]

20.7.1 M/s. Agrawal Channel Mills Pvt. Ltd. has made an online application vide proposal no.: IA/CG/IND1/473103/2024 on dated 08.03.2025 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 S. No. 3(a) Metallurgical industries (ferrous and non-ferrous) under Category "A" of the schedule of the EIA Notification, 2006, and attracts general condition as the project site falls in Industrial Growth Centre Siltara, Raipur which is Critically Polluted Area and appraised at Central Level.

20.7.2 Name of the EIA consultant: Anacon Laboratories Pvt. Ltd. Nagpur [S. No.13, List of ACO's with Accreditation Certificate: NABET/EIA/23-26/RA 0304_Rev.01 Issue dtd. 13 Sept., 2024 valid till 29 Sept., 2026.]

Details submitted by Project proponent

20.7.3 The details of the ToR are furnished as below:

| Date of application | Consideration | Details | Date of accord | ToR Validity |
|---------------------|---|--------------------|----------------|--------------|
| 24.07.2023 | 47 th meeting of EAC held on 25 th October 2023 | Terms of Reference | 28.11.2023 | 27.11.2027 |

20.7.4 The proposed expansion project of M/s. Agrawal Channel Mills Pvt. Ltd. Located in Plot 34-35 Phase II Siltara Industrial Area Raipur, Siltara Industrial Area, Raipur, Chhattisgarh is for expansion of production facilities of Induction Furnace with CCM From Existing 59,500 TPA To 289,400 TPA MS Billets along with total Rerolled Steel Production Capacity Of 272,000 TPA, Out of Which 242,000 TPA Through Hot Charging and 30,000 TPA through existing BRF based Rolling Mill.

20.7.5 Details of EDS:

| Details of EDS sought by Ministry | Reply of PP |
|--|--|
| EDS generated on dated 25.12.2024 | |
| 1. At Page No ToR-7 and ToR-27, PP mentioned that no Schedule-I species is present in study area, yet a Wildlife conservatio | <p>This is an expansion of Induction furnace with CCM project by M/s Agrawal Channel Mills Private Limited. The project lies in existing land area at Industrial Growth Centre Siltara, Raipur. No forest land was observed with 10 KM study area. No significant population of wild animals were observed within study area being located in industrial area. However, as per baseline survey conducted by consultant 5 nos. of wild fauna reported which is protected under Schedule – I as per Wildlife Protection Act, 2022.</p> <p>The details of Schedule – I species within study area are as under: [Indian Jackal (<i>Canis aureus</i>), Indian fox (<i>Vulpes bengalensis</i>), Common Mongoose (<i>Herpestes edwardsii</i>), Indian Cobra (<i>Naja naja</i>), Common Rat Snake (<i>Ptyas mucosa</i>)] observed in study area. The details of the same already provided in Ch. 3 of EIA-</p> |

| Details of EDS sought by Ministry | Reply of PP |
|--|---|
| <p>n plan is submitted with the report. In this regard, PP may update the ToR compliance response at all places in the report to reflect presence of schedule I species and also confirm from the State Forest Deptt. about the complete faunal list as per Wildlife Protection Act, 2022 amendment. The status of approval of WLCP may also be uploaded</p> | <p>EMP report. Biological Conservation and Management Plan {Wildlife Conservation Plan} is submitted.</p> <p>As per observation by the Ministry, we have now updated ToR – 7 and ToR – 27.</p> <p>Present Status of Wildlife Conservation Plan: Biological Conservation Plan is submitted for approval at Principal Chief Conservator of Forest (WL), Raipur by Project Proponent vide Ltr. No ACML/2024-25/45 Dated 01.01.2024. (Acknowledgement copy of letter submitted ❖ Approval of WLCP is under process We have updated EIA-EMP Report and EC form on parivesh portal.</p> |
| <p>2. The Part - B, point 2.8 mentions No. on the aspect of hazardous materials, however, information and identification of HSD is mentioned in the EIA Report under Chapter 7, which is</p> | <p>It is estimated that for any emergency power backup the DG sets are installed for which HSD 2.3 KL storage tank is provided. The fuel used in DG set is a flammable liquid due to their basic characteristics. The details of its hazard consequences analysis and safety measures are already covered in Ch. 7 of EIA report.</p> <p>As per observation, point 2.8 (actually it is 28) at Parivesh Portal now updated with specific details</p> |

| Details of EDS sought by Ministry | Reply of PP |
|---|---|
| <p>conflicting. It appears that the 'entries made in the form' and 'the contents of EIA Report need to be cross-checked' in detail.</p> | |
| EDS generated on dated 09.01.2025 | |
| <p>1. The documentary evidence in respect of all CTEs/CTOs need to be uploaded to check the permissions granted vis-a-vis capacities installed by the PP, since inception of the unit to examine violation aspects.</p> | <p>Reply: We wish to most humbly that this issue was previously raised during the appraisal of the ToR application, and we had duly submitted the required details. The committee, after reviewing the information, granted the ToR. We have already submitted details in EIA-EMP report. However, for reference, copies of all previous CTEs and CTOs are enclosed and presented in a tabular format, along with a summary of the chronological events.</p> <p>Chronology of Consent and EC under EIA Notification 2006 and CTE/CTO under Air Act and Water Act for Agrawal Channel Mills Pvt Ltd:</p> <ul style="list-style-type: none"> ➤ The Agrawal Channel Mills Pvt Ltd. had obtained its first consent CTE/CTO under Air Act and Water Act from CECB; on 14.08.2006 for production of 24000 TPA Rerolled Steel production from Reheating Furnace, thereafter on 17.10.2013 the consent for establishment of Gasifier had been obtained. (this facility also was not falling under purview of the EC (EIA Notification 2006) at the prevailing time, In compliance to NGT Order dated 12th February, 2020 and MoEFCC, Notification S.O. 3250(E) dated 20th July, 2022, the Rolling Mills were covered EC/ EIA Notification 2006 thus this application was also submitted for regularization of facility. (This has been disclosed during in ToR application. (Please refer ToR Pg. no. 3 of 23). <p>As per the present rules the Standalone rolling or re-rolling mill units not involving any type of melting or pickling are exempted as per MoEFCC, New Delhi Notification S.O. 2215(E) dtd. 7th June, 2024.</p> <ul style="list-style-type: none"> ➤ The Agrawal Channel Mills Pvt Ltd. had obtained separate consent under Air Act and Water Act from CECB; on 14.05.2007 for production of 14400 TPA of MS Ingot through Induction Furnace. Thereafter on 10.06.2009 the capacity had been expanded to 28800 TPA. The above capacity for the facility was not covered under purview of EIA Notification 2006. ➤ Thereafter CTE/CTO from CECB for Expansion of Reheating Furnace based Rerolling mill has been obtained from 24000 TPA 30000 TPA on dated 06.06.2005, renewal of the same was granted till 31.05.2029 through renewal letter dated 29.05.2019 ➤ Expansion of Induction Furnaces to produce Hot Charging based Rerolled Steel Product was granted from 28800 TPA to 30000 TPA on 10.06.20015 the renewal of consent had been granted till 31.05.2024 through renewal letter dated 14.06.2019 ➤ The Management had decided to expand its Induction Furnace capacity from 30000 TPA to 59500 TPA thus have obtained EC from SEIAA on 20.09.2021. |

| Details of EDS sought by Ministry | Reply of PP | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|----------------|---|----------------|--|------|---------|---|---|---------|---|------------|--|---|---|---------|-------------------------------|------------|--------------------------------------|---|--|---------|-------------------------------|------------|---|
| | <p>Although the project capacity was falling under B-2 category project; being expansion of project involving less than 60000 TPA. Induction Furnace Capacity and located at notified industrial area, however project being located at CPA has been appraised by SEIAA - CG as category B1.</p> <ul style="list-style-type: none"> ➤ The CTE based on above EC had been obtained on dated 20.01.2022 for 59500 TPA Rerolled Steel Product through Induction Furnace via Hot Charging based rolling mill. ➤ Renewal of consent has been granted on 08.02.2023 and renewal till 31.12.2025. ➤ At present Induction Furnace to produce Rerolled steel 59500 TPA and a separate Reheating Furnace based Rerolling Mill with capacity 30000 TPA is in operation. ➤ At present Induction Furnaces upto 60000 TPA are kept out of EIA Notification 2006. Stand alone rolling mills are also kept out of EIA Notification 2006. <p>There is no violation of EIA Notification of 2006. The detailed chronology in tabulated form are as under:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">Sl .</th> <th style="text-align: center; padding: 5px;">Details of sanction from State Pollution Control Board(CECB)/ CGSEIA A/ SEAC</th> <th style="text-align: center; padding: 5px;">Docume nt Type</th> <th style="text-align: center; padding: 5px;">Reference number of documents</th> <th style="text-align: center; padding: 5px;">Date</th> <th style="text-align: center; padding: 5px;">Remarks</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">1</td> <td style="text-align: center; padding: 5px;">First CTE/CTO for 24000 TPA Reheating Furnace based Rerolled Steel products</td> <td style="text-align: center; padding: 5px;">CTE/CTO</td> <td style="text-align: center; padding: 5px;">CECB letter 1792 and 1794/RO/TS/CECB/2006 dated. 14/08/2006</td> <td style="text-align: center; padding: 5px;">14/08/2006</td> <td style="text-align: center; padding: 5px;">24000 TPA Reheating Furnace based rolling mill consent</td> </tr> <tr> <td style="text-align: center; padding: 5px;">2</td> <td style="text-align: center; padding: 5px;">Separate CTE/CTO for 14400 TPA I.F. to produce MS Ingots/Billet</td> <td style="text-align: center; padding: 5px;">CTE/CTO</td> <td style="text-align: center; padding: 5px;">1338 and 1340/RO/TS/CECB/2007</td> <td style="text-align: center; padding: 5px;">14/05/2007</td> <td style="text-align: center; padding: 5px;">First Consent for Induction Furnace.</td> </tr> <tr> <td style="text-align: center; padding: 5px;">3</td> <td style="text-align: center; padding: 5px;">CTE/CTO for 28800 TPA I.F. to produce MS</td> <td style="text-align: center; padding: 5px;">CTE/CTO</td> <td style="text-align: center; padding: 5px;">1943 and 1944/RO/TS/CECB/2009</td> <td style="text-align: center; padding: 5px;">10/06/2009</td> <td style="text-align: center; padding: 5px;">Expansion of production form 14400 TPA to</td> </tr> </tbody> </table> | Sl . | Details of sanction from State Pollution Control Board(CECB)/ CGSEIA A/ SEAC | Docume nt Type | Reference number of documents | Date | Remarks | 1 | First CTE/CTO for 24000 TPA Reheating Furnace based Rerolled Steel products | CTE/CTO | CECB letter 1792 and 1794/RO/TS/CECB/2006 dated. 14/08/2006 | 14/08/2006 | 24000 TPA Reheating Furnace based rolling mill consent | 2 | Separate CTE/CTO for 14400 TPA I.F. to produce MS Ingots/Billet | CTE/CTO | 1338 and 1340/RO/TS/CECB/2007 | 14/05/2007 | First Consent for Induction Furnace. | 3 | CTE/CTO for 28800 TPA I.F. to produce MS | CTE/CTO | 1943 and 1944/RO/TS/CECB/2009 | 10/06/2009 | Expansion of production form 14400 TPA to |
| Sl . | Details of sanction from State Pollution Control Board(CECB)/ CGSEIA A/ SEAC | Docume nt Type | Reference number of documents | Date | Remarks | | | | | | | | | | | | | | | | | | | | |
| 1 | First CTE/CTO for 24000 TPA Reheating Furnace based Rerolled Steel products | CTE/CTO | CECB letter 1792 and 1794/RO/TS/CECB/2006 dated. 14/08/2006 | 14/08/2006 | 24000 TPA Reheating Furnace based rolling mill consent | | | | | | | | | | | | | | | | | | | | |
| 2 | Separate CTE/CTO for 14400 TPA I.F. to produce MS Ingots/Billet | CTE/CTO | 1338 and 1340/RO/TS/CECB/2007 | 14/05/2007 | First Consent for Induction Furnace. | | | | | | | | | | | | | | | | | | | | |
| 3 | CTE/CTO for 28800 TPA I.F. to produce MS | CTE/CTO | 1943 and 1944/RO/TS/CECB/2009 | 10/06/2009 | Expansion of production form 14400 TPA to | | | | | | | | | | | | | | | | | | | | |

| Details of EDS sought by Ministry | Reply of PP | | | | | |
|-----------------------------------|-------------|---|---------------|---|------------|--|
| | | Ingot/Billet | | | | 28000 TPA MS ingot |
| | 4 | CTE for Gassifier 24000 TPA | CTE expansion | CECB letter 1523 and 1524/RO/TS/CECB/2013 | 17/10/2013 | Gassifier 24000- TPA granted |
| | 5 | CTE/CTO for the Separate Reheating Furnace based Rolling Mill capacity was expanded to 30000 TPA | CTE/CTO | CECB letter No: 656/RO/TS/CECB/2015 | 06/06/2015 | The rolling mill under 30 K was not requires EC on the issuance date, now the regularization is also applied with this application |
| | 6 | CTE/CTO for 30000 TPA Rerolled Product through Induction furnace and CCM based Hot charging based direct Rolling Mill | CTE/CTO | CECB letter No: 672 and 673/RO/TS/CECB/2015 | 10/06/2015 | as on this date Rolling Mills were Not considered to falls under EC purview of EIA Notification 2006 |
| | 7 | Renewal of consent for 30000 TPA BRF (Billet reheating Furnace) based Rolling Mill | CTO renewal | CECB letter No: 927/RO/TS/CECB/2019 | 29/05/2019 | Validity renewed up to 31.05.2029 |
| | 8 | Renewal of 30000 TPA Rerolled Products | CTO Renewal | CECB letter No: 1126/RO/TS/CECB/2019 | 14/06/2019 | Renewed till 31.05.2024 |

| Details of EDS sought by Ministry | Reply of PP | | | | |
|-----------------------------------|---|---------|---|------------|--|
| | through Induction Furnace and CCM based Hot charging based direct Rolling Mill | | | | |
| 9 | EC from SEIAA for capacity expansion Induction Furnace and CCM based Hot charging based direct Rolling Mill from 30000 TPA to 59500 TPA | EC | CG SEIAA letter No: 1274/EC/RAIPUR/17 31 | 20/09/2021 | Although it is B2 category project being capacity of I.F. less 60,000 TPA, and located at industrial area, however located at CPA area accordance to CPCB mechanism for CPA this project was appraised as B1 category. |
| 10 | CTE/CTO for Expansion Induction Furnace and CCM based Hot charging based direct Rolling Mill from 30000 TPA to 59500 TPA in | CTE/CTO | CECB letter No: 3227/RO/TS/CECB/2022 Dated 20.01.2022 | 20/01/2022 | As per EC |

| Details of EDS sought by Ministry | Reply of PP | | | | |
|---|-------------|---|-------------|---|--|
| | | accordance with EC sanctioned by SEIAA | | | |
| | 1 1 | Renewal of CTO for 59500 TPA Rerolled product through 10 MT X 4 Nos Induction Furnace | CTO Renewal | CECB letter No: 4711/RO/TS/CECB/2023 Dated 08.02.2023 | 08/02/2023 Renewed up to 31.12.2025 |
| <p>The consent letters copies have been submitted</p> <p>The company has also obtained authorization under Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016 with Authorization No. 602/HSMD/HO/CECB Valid till 13.04.2028 vide CECB letter 222/HSMD/HO/CECB/2023 dated 17/04/2023 (Copy of authorization is submitted)</p> <p>It is evident with the above that unit has not violated EIA Notification 2006.</p> <p>2. In 2021, the EC was obtained from SEIAA in spite of the location of the project in CPA/ SPA, making it a Category - A project inviting General conditions. PP may submit a clarification in this regard, in consultation with SEIAA.</p> | | | | | |
| <p>The information regarding EC obtained from SEIAA in 2021 was also presented before the Expert Appraisal Committee (EAC) (Industry – I), MoEFCC, New Delhi, during the Terms of Reference (ToR) appraisal. We provided a detailed justification on the matter, and after thorough deliberation, the Ministry granted the ToR for our expansion project.</p> <p>However, we wish to submit as below:</p> <p>The project has got existing EC for expansion of Induction Furnaces with Hot Charging rolling mill from 30,000 TPA to 59,500 TPA from SEIAA, CG on 20.09.2021. The project capacity upto 60000 TPA in Industrial area was categorized as B₂ as per OM dtd. 24th December, 2013. However, in compliance to CEPI guidelines SEIAA had appraised this project as B₁ as per provision 7(ii) (a), SEAC on due diligence found there is no increase in pollution load thus, there is no requirement of carrying out EIA and Public Hearing and project has grant EC under B₁ Category. (Please refer Para no. 14 and 15 of enclosed EC granted by SEIAA, CG as Annexure - III)</p> <p>Also, at the time of application of EC for expansion of Induction Furnaces with Hot Charging rolling mill from 30,000 TPA to 59,500 TPA (on dt. 15.07.2021) the NGT order was kept under abeyance by the order of supreme court vide order No. dated 22.10.2020 which was lifted later on by the Supreme court Vide Order No dated 25.02.2022. The SEIAA had considered the project during this period when the NGT order was kept under abeyance by the order of supreme court.</p> | | | | | |

| Details of EDS sought by Ministry | Reply of PP |
|---|--|
| 3. There are a number of non-compliances and partial compliances reported by IRO in its CCR, which is latest in comparison to CECB report. PP shall submit a review report on the same from the concerned IRO | <p>The issues related to CCR of M/s. Agrawal Channel Mills Pvt. Ltd. we wish to submit as below: -</p> <ul style="list-style-type: none"> ➤ We have submitted request for Certified compliance Report to IRO MOEFCC Raipur regional office; on dated 10.05.2023, 24.06.2023 and 29.04.2024. (Request copy enclosed for your reference submitted) ➤ Since we did not receive any response to our initial request letter dated 10.05.2023, we subsequently submitted another request to the SPCB on 28.02.2024, (copy submitted) requesting for the issuance of a certified compliance report as per MoEFCC OM dated 08.06.2022. ➤ Thereafter, the SPCB (CECB) conducted a site inspection on 27.05.2024 and issued the certified compliance report on 24.06.2024. ➤ On 05.07.2024 IRO official have also done a site inspection and have issued CCR on dated 26.07.2024 in which they have raised some observation. ➤ We have submitted Action Taken Report to the IRO Raipur; for the observation on dated 05.09.2024 with a request to issue closure report for observation in CCR. ➤ On not getting any response from IRO MOEFCC Raipur we have again submitted our reminder request with ATR on 06.12.2024 to issue closure report for observation made in CCR, since more than 3 months have passed after submission of ATR thus; we request you to kindly consider CCR issued by CECB. ➤ Now we have again requested for Review report on 14 Jan 2025; ➤ We have again recently requested to IRO, MoEFCC, Raipur for Closure Report vide letter no. ACMPL/ATR/2025/046 dated 27.02.2025 (Copy enclosed as submitted) ➤ The response to our ATR dated 05.09.2024 has been pending with the IRO, Raipur office from six months. <p>Prayer:</p> <p>It is most humbly submitted that the project is getting delayed by more than 23 months for want of CCR report due to manpower constrain in IRO Raipur therefore we humbly request to consider our application based on State Board CCR. It may be appreciated that, as per the new notification dated 07.06.2024, the current capacity and facilities at project is now exempt from the EIA Notification 2006, as the production of MS Billets through induction melting using electrical energy is below sixty thousand tonnes per annum.</p> <p>Therefore, we request you to kindly consider the RO, CECB CCR report sympathetically and take it into account during the EC appraisal.</p> |
| 4. It is not clear from the submissions made that whether the land identified for additional greenbelt | <p>We wish to submit that the land is in possession of the company and its company's own land in which we have already developed additional greenbelt. We have already completed the development of greenbelt at this land.</p> <p>However we wish to clarify that the existing unit is set up in a quite old industrial area plot and the unit has limitations to acquire adjoining land as these adjoining lands are already having industries set up in it, Thus the unit has implemented green belt in the limited available space with in the project area and has acquired additional land at within the 5 KM vicinity of project area which is at Khsara No 506/1 area 0.784 Ha. at Village Akoli, P.H. No. 21/93, RNN Dharsiwa, Tahsil and District- Raipur (CG) which is just at a distance of 3.5 KM (E Direction) at Latitude</p> |

| Details of EDS sought by Ministry | Reply of PP | | | | | | | | | | | | | | | | | | |
|---|---|---|---------------------------------------|---|-------------------------|-----------------------|----------|--|--------------|--------------|-----------------|------|-------|-----------|------|-------|--------------|-------------|---------------|
| outside the plant premises is under possession of the PP or not. A clarification in this regard may be provided. | 21°21'39.95"N and Longitude 81°41'29.14"E. and has planted 2000 number of plants (photographs submitted). The 0.784 Ha of land designated for plantation outside the plant premises, to fulfill green belt norms, is registered in the company's name (land document submitted). The constrain it is humbly requested to allow us to complete the balance green belt within the land acquired by us within 5 KM radius as discussed above. The details of area statement are as under: | | | | | | | | | | | | | | | | | | |
| TABLE 1: EXISTING AND PROPOSED AREA STATEMENT | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Land Use</th><th>Proposed Area (Ha)</th><th>In %</th></tr> </thead> <tbody> <tr> <td>Built Up Area</td><td>1.17</td><td>48.95</td></tr> <tr> <td>Road and Paved area (a) Parking Area (b) Road Area</td><td>0.04 0.02</td><td>1.67 0.84</td></tr> <tr> <td>Green Belt area</td><td>0.46</td><td>19.25</td></tr> <tr> <td>Open Area</td><td>0.70</td><td>29.29</td></tr> <tr> <td>Total</td><td>2.39</td><td>100.00</td></tr> </tbody> </table> | | Land Use | Proposed Area (Ha) | In % | Built Up Area | 1.17 | 48.95 | Road and Paved area (a) Parking Area (b) Road Area | 0.04 0.02 | 1.67 0.84 | Green Belt area | 0.46 | 19.25 | Open Area | 0.70 | 29.29 | Total | 2.39 | 100.00 |
| Land Use | Proposed Area (Ha) | In % | | | | | | | | | | | | | | | | | |
| Built Up Area | 1.17 | 48.95 | | | | | | | | | | | | | | | | | |
| Road and Paved area (a) Parking Area (b) Road Area | 0.04 0.02 | 1.67 0.84 | | | | | | | | | | | | | | | | | |
| Green Belt area | 0.46 | 19.25 | | | | | | | | | | | | | | | | | |
| Open Area | 0.70 | 29.29 | | | | | | | | | | | | | | | | | |
| Total | 2.39 | 100.00 | | | | | | | | | | | | | | | | | |
| TABLE 2: COMPLIANCE OF GREEN BELT CONDITIONS (In Hectare) | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total Area within plant premises</th><th>Green belt Area within Plant Premises</th><th>Green Belt area Outside Plant Premises (within 5 KM radius)</th><th>Total Greenbelt Planted</th><th>Total Green belt in %</th></tr> </thead> <tbody> <tr> <td>2.39 Ha.</td><td>0.46</td><td>0.78</td><td>1.24</td><td>51.89%</td></tr> </tbody> </table> | | Total Area within plant premises | Green belt Area within Plant Premises | Green Belt area Outside Plant Premises (within 5 KM radius) | Total Greenbelt Planted | Total Green belt in % | 2.39 Ha. | 0.46 | 0.78 | 1.24 | 51.89% | | | | | | | | |
| Total Area within plant premises | Green belt Area within Plant Premises | Green Belt area Outside Plant Premises (within 5 KM radius) | Total Greenbelt Planted | Total Green belt in % | | | | | | | | | | | | | | | |
| 2.39 Ha. | 0.46 | 0.78 | 1.24 | 51.89% | | | | | | | | | | | | | | | |
| <p>Note: Total Green belt = Total Plot area is 2.39 Ha. Green belt area earmarked within plant premises 0.46 Ha. (19.25%) + outside plantation within 5 KM 0.78 Ha (i.e. 32.64%) = 1.24 Ha. (i.e 51.89%)</p> | | | | | | | | | | | | | | | | | | | |
| 5. Air Quality parameters have been reported beyond standards in the baseline data, a clarification may be submitted on the same along with proposed actions. | <p>The proposed expansion will not require coal or any other fossil fuel, as the Induction Furnaces will operate entirely on electrical energy. The baseline monitoring was conducted within the study area in line with approved ToR during Pre-monsoon Season (15th Mar 2023 – 15th June 2023). The concentration of PM₁₀ was in range of 57.1 µg/m³ to 126.0 µg/m³. The highest Concentration of PM₁₀ (i.e. 126.0 µg/m³) which is beyond the CPCB standards was observed at Siltara. The clarification regarding higher Air Quality parameters are as under:</p> <p>The project is situated in the Industrial Belt of Siltara Industrial Area, Raipur, which has been classified as a Critically Polluted Area by the CPCB. Numerous coal-based sponge iron plants are located within a 5-kilometre radius of the site, and the road conditions in the industrial area are poor. However, our proposed expansion project does not involve any additional use of solid fossil fuels. The list of Industries along with location of industries on map within 10 KM is provided.</p> <p style="text-align: center;">PROPOSED ACTION TO CONTROL AIR POLLUTION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Process</th><th>Air Pollution Control Equipment</th><th>Emission Level</th></tr> </thead> <tbody> <tr> <td style="text-align: center;">Existing</td><td></td><td></td></tr> </tbody> </table> | Process | Air Pollution Control Equipment | Emission Level | Existing | | | | | | | | | | | | | | |
| Process | Air Pollution Control Equipment | Emission Level | | | | | | | | | | | | | | | | | |
| Existing | | | | | | | | | | | | | | | | | | | |

| Details of EDS sought by Ministry | Reply of PP | | |
|--|--|--|---|
| | Induction Furnace and CCM | Suction Hood with Bag Filter with 30 meter height chimney | PM <25 mg/Nm ³ |
| | Coal Gassifier based Reheating Furnace | Wet Scrubber and Dust cyclone with 30 meter height chimney | PM <50 mg/Nm ³ SO ₂ - 300 µg/Nm ³ NO _x - 1000 µg/Nm ³ |
| Proposed after expansion | | | |
| | Steel Melting Shop with hot charging rolling mill | Movable suction hood along with Bag Filters with a chimney | PM <25 mg/Nm³ |
| | Billet Reheating Furnace attached to Rerolling Mill | Waste heat recuperator with Wet Scrubber and dust cyclone with a Chimney | PM <30 mg/Nm³ SO ₂ - 300 µg/Nm ³ NO _x - 1000 µg/Nm ³ |
| 6. It is learnt that the State Government of Chhattisgarh had imposed ban on establishment of New Sponge Iron Plant and Coal based Power Plant (Ref:783/205/07 dated: 16/03/ 2007) and ban on diversification (involving use of coal as fuel or raw material) of existing industries [Ref: 3529/205/05/11(E) dated: 12.12.2007]. PP shall submit information | <p>We acknowledge the query regarding the State Government of Chhattisgarh orders [Ref: 783/205/07 dated 16.03.2007] and [Ref: 3529/205/05/11(E) dated 12.12.2007], which impose a ban on the establishment of new sponge iron plants and coal-based power plants, as well as restrictions on diversification involving the use of coal as fuel or raw material. The proposed expansion will not require any Coal or other fossil fuel as Induction Furnaces are operated on Electrical Energy. In this regard, we submit the following clarifications:</p> <p>1. Nature of the Proposed Expansion</p> <ul style="list-style-type: none"> Our proposed expansion solely involves an increase in the capacity of the Induction Furnace with CCM, which operates on electrical energy. Hence, there is no proposal for new sponge iron plant or coal-based power plant is being established under this expansion. The project does not include any diversification that involves the use of additional coal as fuel or raw material. <p>2. Compliance with State Government Orders</p> <ul style="list-style-type: none"> Since our expansion is entirely electrical energy-based, and there is no change in reheating capacity of existing unit it does not fall under the purview of the restrictions imposed by the State Government's orders. The orders specifically pertain to coal-based projects, which do not apply to our proposed activities. <p>3. Implications of the Orders on the Project</p> <ul style="list-style-type: none"> As there is no additional coal consumption or introduction of a coal-based process, the bans do not have any implications on our expansion proposal. The project remains fully compliant with state regulations and environmental guidelines. <p>4. Supporting Documentation</p> <ul style="list-style-type: none"> A self-declaration confirming that the expansion does not involve coal as fuel or raw material is provided. | | |

| Details of EDS sought by Ministry | Reply of PP |
|--|-------------|
| on the implications of the orders on existing/proposed activities covered under the project. | |

20.7.6 Environmental Site Settings:

| Sl. | Particulars | Details | Remarks |
|-----|--|---|---|
| 1. | Total land | <p>Total Project area existing land – 2.39 Ha. [Govt. (<i>Leased land</i>)];</p> <p>*Additional Green belt at Khasara No 506/1 area 0.784 at Village Akoli, P.H. No. 21/93, RNN Dharsiwa, Tahsil and District- Raipur (CG) which is just at a distance of 3.5 KM (E Direction)</p> | <p>The land is under industrial area developed by Govt. of Chhattisgarh before EIA 2006 and land use is industrial. This is leased land for which lease deed of 2.39 Ha. has been executed. The land is under possession of the company and existing plant is operating in it. The project expansion is proposed on existing 2.39 Hectares of industrial land. The additional land has been purchased for green belt and it has been planted.</p> |
| 2. | Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 | <p>The total project area for expansion is 2.39 Hectare. The land is existing industrial land. No additional land proposed to be acquired. Greenbelt area 19% (i.e., 0.46 Ha.) will be kept unchanged. The land already diverted to industrial purpose.</p> <p>*Additional Green belt at Khasara No 506/1 area 0.784 at Village Akoli, P.H. No. 21/93, RNN Dharsiwa, Tahsil and District- Raipur (CG) which is just at a distance of 3.5 KM (E Direction)</p> | <p>No additional land proposed to be acquired.</p> <p>MoEF&CC O.M. dated 7/10/2014 is not applicable.</p> |

| Sl. | Particulars | Details | Remarks | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|--------------------|---------------|-----------|-------------|---------------|---------------|----------------------------|---------------|---------------|-------------------------|---------------|---------------|----------------------|---------------|---------------|--|------|----|--|
| 3. | Existence of habitation & involvement of R&R, if any. | <p>Project Site: No</p> <p>Study Area:</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Siltara</td> <td>0.98</td> <td>E</td> </tr> <tr> <td>Sondra</td> <td>1.77</td> <td>SW</td> </tr> <tr> <td>Sankara</td> <td>1.85</td> <td>SSW</td> </tr> <tr> <td>Tanda</td> <td>2.7</td> <td>E</td> </tr> </tbody> </table> | Habitation | Distance | Direction | Siltara | 0.98 | E | Sondra | 1.77 | SW | Sankara | 1.85 | SSW | Tanda | 2.7 | E | R&R plan is not required, as the land is existing industrial land. | | | |
| Habitation | Distance | Direction | | | | | | | | | | | | | | | | | | | |
| Siltara | 0.98 | E | | | | | | | | | | | | | | | | | | | |
| Sondra | 1.77 | SW | | | | | | | | | | | | | | | | | | | |
| Sankara | 1.85 | SSW | | | | | | | | | | | | | | | | | | | |
| Tanda | 2.7 | E | | | | | | | | | | | | | | | | | | | |
| 4. | Latitude and Longitude of all corners of the project site. | <table border="1"> <thead> <tr> <th>Points</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>21°22'17.02"N</td> <td>81°39'29.15"E</td> </tr> <tr> <td>02</td> <td>21°22'23.27"N</td> <td>81°39'31.73"E</td> </tr> <tr> <td>03</td> <td>21°22'21.56"N</td> <td>81°39'35.61"E</td> </tr> <tr> <td>04</td> <td>21°22'21.56"N</td> <td>81°39'35.61"E</td> </tr> </tbody> </table> | Points | Latitude | Longitude | 01 | 21°22'17.02"N | 81°39'29.15"E | 02 | 21°22'23.27"N | 81°39'31.73"E | 03 | 21°22'21.56"N | 81°39'35.61"E | 04 | 21°22'21.56"N | 81°39'35.61"E | Plot No. 34-35, Phase - II Industrial Growth Centre, Siltara Raipur – 493 111, State Chhattisgarh. | | | |
| Points | Latitude | Longitude | | | | | | | | | | | | | | | | | | | |
| 01 | 21°22'17.02"N | 81°39'29.15"E | | | | | | | | | | | | | | | | | | | |
| 02 | 21°22'23.27"N | 81°39'31.73"E | | | | | | | | | | | | | | | | | | | |
| 03 | 21°22'21.56"N | 81°39'35.61"E | | | | | | | | | | | | | | | | | | | |
| 04 | 21°22'21.56"N | 81°39'35.61"E | | | | | | | | | | | | | | | | | | | |
| 5. | Elevation of the project site | 275- 278 M above mean sea level. | Flat Land | | | | | | | | | | | | | | | | | | |
| 6. | Involvement of Forest land if any. | 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 | <p>Project Site: NA</p> <p>Study area:</p> <table border="1"> <thead> <tr> <th>Name of Water body</th> <th>Distance (km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Karun River</td> <td>4.90</td> <td>W</td> </tr> <tr> <td>Arbandha Talab, Giroud Rd.</td> <td>5.78</td> <td>ESE</td> </tr> <tr> <td>Rani Sagar Talab, Kunra</td> <td>6.46</td> <td>NNE</td> </tr> <tr> <td>Dongia Talab, Giraud</td> <td>4.21</td> <td>SE</td> </tr> <tr> <td>Pachri Talab, Giraud</td> <td>4.19</td> <td>SE</td> </tr> </tbody> </table> | Name of Water body | Distance (km) | Direction | Karun River | 4.90 | W | Arbandha Talab, Giroud Rd. | 5.78 | ESE | Rani Sagar Talab, Kunra | 6.46 | NNE | Dongia Talab, Giraud | 4.21 | SE | Pachri Talab, Giraud | 4.19 | SE | No natural water body is involved in the proposed plant site hence authenticated HFL data of the water body is not required. |
| Name of Water body | Distance (km) | Direction | | | | | | | | | | | | | | | | | | | |
| Karun River | 4.90 | W | | | | | | | | | | | | | | | | | | | |
| Arbandha Talab, Giroud Rd. | 5.78 | ESE | | | | | | | | | | | | | | | | | | | |
| Rani Sagar Talab, Kunra | 6.46 | NNE | | | | | | | | | | | | | | | | | | | |
| Dongia Talab, Giraud | 4.21 | SE | | | | | | | | | | | | | | | | | | | |
| Pachri Talab, Giraud | 4.19 | SE | | | | | | | | | | | | | | | | | | | |
| 8. | Existence of ESZ/ESA / national park/ wildlife sanctuary/ biosphere reserve/tiger reserve/ elephant reserve etc. if any within the study area | Nil | | | | | | | | | | | | | | | | | | | |

20.7.7 The first Consent to Establish (CTE) and Consent to Operate (CTO) were granted on August 14, 2006, for a 24,000 TPA reheating furnace-based re-rolled steel products unit, as per CECB letter no. 1792 and 1794/RO/TS/CECB/2006. Subsequently, a separate CTE/CTO was issued on May 14, 2007, for a 14,400 TPA induction furnace (I.F.) to produce MS ingots/billets (CECB letter no. 1338

and 1340/RO/TS/CECB/2007). Later, on June 10, 2009, the production capacity was expanded to 28,800 TPA, as per CECB letter no. 1943 and 1944/RO/TS/CECB/2009.

Further, CTE were taken for expansion of 24,000 TPA gasifier on October 17, 2013 (CECB letter no. 1523 and 1524/RO/TS/CECB/2013). On June 6, 2015, another CTE/CTO was issued for the expansion of the reheating furnace-based rolling mill to 30,000 TPA (CECB letter no. 656/RO/TS/CECB/2015). On June 10, 2015, a CTE/CTO was also granted for a 30,000 TPA re-rolled product unit using an induction furnace and a continuous casting machine (CCM) with hot charging-based direct rolling (CECB letter no. 672 and 673/RO/TS/CECB/2015). At that point, rolling mills were not considered under the purview of the Environmental Clearance (EC) requirement of the EIA Notification 2006.

Renewals of these consents were obtained time to time. On May 29, 2019, the renewal of CTO for a 30,000 TPA billet reheating furnace (BRF) rolling mill was approved, with validity extended until May 31, 2029 (CECB letter no. 927/RO/TS/CECB/2019). Similarly, the renewal of the CTO for a 30,000 TPA re-rolled product unit using induction furnace and CCM-based hot charging direct rolling mill was granted on June 14, 2019, valid until May 31, 2024 (CECB letter no. 1126/RO/TS/CECB/2019).

For capacity expansion, an Environmental Clearance (EC) was obtained from SEIAA on September 20, 2021, for increasing the capacity of the induction furnace and CCM-based hot charging direct rolling mill from 30,000 TPA to 59,500 TPA (CG SEIAA letter no. 1274/EC/RAIPUR/1731). Although the project fell under the B2 category due to the induction furnace capacity being below 60,000 TPA and its location within an industrial area, it was appraised as a B1 category project due to its presence in a Critically Polluted Area (CPA) as per CPCB guidelines. Accordingly, on January 20, 2022, a CTE/CTO was granted for this expansion, aligning with the EC (CECB letter no. 3227/RO/TS/CECB/2022).

On February 8, 2023, the CTO was renewed for the 59,500 TPA re-rolled product unit through a 10 MT x 4 Nos induction furnace, valid till December 31, 2025 (CECB letter no. 4711/RO/TS/CECB/2023).

20.7.8 Implementation status of the existing EC/CTE:

| Sl. No. | Facilities | Units | As per EC and CTE dated | Implementation Status as on 28.03.2025 | Production as per CTO |
|---------|---|--|-------------------------------|--|-----------------------|
| 1 | Induction Furnace and CCM and hot charging based electrical driven rolling mill | Induction Furnace (10 Tons X 4 Nos along with CCM and 198 TPD electrical driven rolling mill.) | 20/09/2021 (EC) and (CTE/CTO) | Implemented | 59,500 TPA |
| 2 | Billet Reheating Furnace | 100 TPD | 06/06/2015 (CTE/CTO) | Implemented | 30,000 TPA |

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

| Sl. | Details | Existing Permitted Capacity TPA | Proposed Capacity addition TPA | Final Capacity after Expansion TPA | Remarks |
|-----|---|--|---|--|--|
| 1 | Induction Furnace and CCM and hot charging based electrical driven rolling mill | Induction Furnace (10Tons X 4 Nos along with CCM and 198 TPD electrical driven rolling mill. | Existing 10 Tons X 4 Nos Induction Furnace will be augmented 12 Tons X 4 Nos. and 20 MT X 2 Nos. new I.F. will be implemented along with CCM Rolling Mill capacity will be augmented additional 608 TPD rolling mill capacity | Induction Furnace 12 Tons X 4 Nos. and 20 MT X 2 Nos new I.F. along with CCM and hot charging based electrical rolling mill 807 TPD capacity | -The facility will not require any fuel and hot charging based technology will be adopted for rolling mill |
| 2 | Billet Reheating Furnace | 100 TPD | No change | 30000 TPA | No Change |

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

| Name of Raw Material | Qty. Required (In TPA) | Source | Distance (In Km) | Mode of Transportation |
|--|------------------------|--|------------------------|--|
| For Induction Furnace (SMS) | | | | |
| Sponge Iron | 311,105.00 | Local market | Within 50 Kms | By Road through covered vehicles |
| Pig Iron / CI Scrap | 38,189.00 | Captive production/ Local market | Within 50 Kms | By Road through covered vehicles |
| Melting Scrap | 18,000.00 | Captive generation/ Local market | Captive/ Within 50 Kms | Internally available/ By Road through covered vehicles |
| Ferro Alloys | 2894.00 | Local market | Within 50 Kms | By Road through covered vehicles |
| Aluminum | 290.00 | Open Market/BALCO | Within 250 Kms | By Road through covered vehicles |
| Ramming Mass | 724.00 | Open Market | Within 100 Kms | By Road through covered vehicles |
| Total | 371,202.00 | | | |
| Rolling Mill (272,000 TPA) | | | | |
| For Hot Charging based Rerolling mill (242,000 TPA) | | | | |
| Hot Billets | 242,400.00 | Captive Production in Steel Melting shop | Captive | Internal Transfer |
| Total | 242,400.00 | | | |
| For Reheating Furnace based Rerolling mill | | | | |
| Cold Billets | 30000.00 | Captive | | Internal Transfer |

| Name of Raw Material | Qty. Required (In TPA) | Source | Distance (In Km) | Mode of Transportation |
|----------------------|------------------------|---|------------------|---|
| | | Production | | |
| Coal | 3600.00 | SECL Coal mines/ Open market/Local Market | Within 500 Kms | Coal will be transported by rail head up to nearest Railway sidings and then by Road through covered vehicles |
| Total | 33600.00 | | | |

20.7.11 Existing Water requirement was 32 m³/day, which was obtained from surface water and permission for the same has been obtained from Chhattisgarh Ispat Bhumi Limited (Industrial Water Supply network). The water requirement for the proposed expansion project is estimated as 425 m³ /day, will be obtained from the surface water. The permission for drawl of surface water has been obtained from Chhattisgarh Ispat Bhumi Limited (Industrial Water Supply network) and Charges will pay through the water bill.

20.7.12 Total Power requirement of 37 MW is obtained from State Grid (CSPDCL). In addition, existing plant already has 250 kVA and 1 no of 400 kVA DG sets is proposed which will be continued to be used as emergency backup.

20.7.13 Baseline Environmental Studies:

| Period | Winter Season (15 th Mar 2023 – 15 th June 2023) | |
|--|---|---|
| AAQ parameters at 8 Locations (min. and max) | PM ₁₀ = 57.1 to 126 µg/m ³ PM _{2.5} = 19.5 to 51.3 µg/m ³ SO ₂ = 7.8 to 28.5 µg/m ³ NO ₂ = 12.7 to 40.6 µg/m ³ CO = 0.245 mg/m ³ to 0.562 mg/m ³ | |
| Incremental GLC level | Concentration due to existing activities (PM ₁₀) = 0.18 µg/m ³ (Level at 400 m in SW Direction) (PM _{2.5}) = 0.08 µg/m ³ (Level at 400 m in SW Direction) SO ₂ = 1.22 µg/m ³ (Level at 400 m in SW Direction) NO ₂ = 3.99 µg/m ³ (Level at 400 m in SW Direction) | Incremental Concentration due to proposed activities (PM ₁₀) = 0.24 µg/m ³ (Level at 400 m in SW Direction) (PM _{2.5}) = 0.06 µg/m ³ (Level at 400 m in SW Direction) SO ₂ = 0.00 µg/m ³ (Level at 400 m in SW Direction) NO ₂ = 0.00 µg/m ³ (Level at 400 m in SW Direction) |
| Ground water quality at 8 locations | pH: 7.40 to 7.82 Total hardness: 248.24 to 553.19 mg/l. Chloride: 92.78 to 181.30 mg/l Fluoride: 0.29 to 0.53 mg/l, Nitrate: 9.74 to 27.74 mg/l, Sulphate: 19.14 to 44.40 mg/l | |
| Surface water | pH: 7.28 to 7.82. Chloride: 70.53 to 156.46 mg/l. Sulphate: 29.28 to 37.71 mg/l. DO: of 5.4 to 6.4 mg/l. | |

| quality at 8 locations | COD from 22.95 to 65.18 mg/l and BOD from 6.54 to 21.36 mg/l. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|-------------------------|-------------------------|-------------------------|--------------------|-----|---------------------------------|-------|-------|--------|--------------------|---|------|-------|--------|--------------------|------|--|-----------------------|-------------------------|--------------------|-----|---------------------------------|---------------------|-------|-------|--------|--------------------|---|-------------------|------|-------|--------|--------------------|
| Noise levels Leq. (Day and Night) | <p>Noise levels at every station were within CECB standards.</p> <p>Residential Area – 51.4 to 53.2 dBA for day time and 39.7 to 41.3 dBA for night time.</p> <p>Commercial Area – 63.7 to 64.2 dBA for day time and 44.5 to 46.3 dBA for night time.</p> <p>Silence Zone – 47.8 dBA to 48.4 dBA for day time and 37.7 dBA to 38.1 dBA for night time.</p> <p>Industrial area - 66.7 to 68.1 dBA for day time and 51.8 to 54.46 dBA for night time.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Traffic assessment study findings | <ul style="list-style-type: none"> Traffic study has been conducted at NH-30 (Raipur to Bilaspur Road) and Road Connecting project site with NH-30. Transportation of raw materials, fuel & furnished product will be done 100% by road. Existing PCU is 18028 PCU/day on NH-30 (Raipur to Bilaspur Road) and Existing PCU is 6843 PCU/day on Road Connecting project site with NH-30 and existing level of service (LOS) for both the road is: C <table border="1"> <thead> <tr> <th>Road</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>NH-30 (Raipur to Bilaspur Road)</td><td>18028</td><td>35000</td><td>0.5150</td><td>C (GOOD/AVG /FAIR)</td></tr> <tr> <td>Road Connecting project site with NH-30</td><td>6843</td><td>15000</td><td>0.4562</td><td>C (GOOD/AVG /FAIR)</td></tr> </tbody> </table> <ul style="list-style-type: none"> PCU load after proposed expansion project will be 18028 (Existing) + 538 (Additional) PCU/day on NH-30 (Raipur to Bilaspur Road) and 6843 (Existing) + 538 (Additional) PCU/day on Road Connecting project site with NH-30 and level of service (LOS) will be: C <table border="1"> <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>NH-30 (Raipur to Bilaspur Road)</td><td>18028 + 538 = 18566</td><td>18566</td><td>35000</td><td>0.5304</td><td>C (GOOD/AVG /FAIR)</td></tr> <tr> <td>Road Connecting project site with NH-30</td><td>6843 + 538 = 7381</td><td>7381</td><td>15000</td><td>0.4921</td><td>C (GOOD/AVG /FAIR)</td></tr> </tbody> </table> <p>*Note: Capacity as per IRC: 64-1990) Guide line for capacity for roads.</p> <p>Conclusion: The level of service will be C after including additional traffic due to proposed expansion project activity.</p> | Road | V (VOLUME IN PCU/DAY) | C (CAPACITY IN PCU/DAY) | Existing V/C Ratio | LOS | NH-30 (Raipur to Bilaspur Road) | 18028 | 35000 | 0.5150 | C (GOOD/AVG /FAIR) | Road Connecting project site with NH-30 | 6843 | 15000 | 0.4562 | C (GOOD/AVG /FAIR) | Road | Increased PCU's- State/ National Highway | V (VOLUME IN PCU/DAY) | C (CAPACITY IN PCU/DAY) | Modified V/C Ratio | LOS | NH-30 (Raipur to Bilaspur Road) | 18028 + 538 = 18566 | 18566 | 35000 | 0.5304 | C (GOOD/AVG /FAIR) | Road Connecting project site with NH-30 | 6843 + 538 = 7381 | 7381 | 15000 | 0.4921 | C (GOOD/AVG /FAIR) |
| Road | V (VOLUME IN PCU/DAY) | C (CAPACITY IN PCU/DAY) | Existing V/C Ratio | LOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NH-30 (Raipur to Bilaspur Road) | 18028 | 35000 | 0.5150 | C (GOOD/AVG /FAIR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Road Connecting project site with NH-30 | 6843 | 15000 | 0.4562 | C (GOOD/AVG /FAIR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Road | Increased PCU's- State/ National Highway | V (VOLUME IN PCU/DAY) | C (CAPACITY IN PCU/DAY) | Modified V/C Ratio | LOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NH-30 (Raipur to Bilaspur Road) | 18028 + 538 = 18566 | 18566 | 35000 | 0.5304 | C (GOOD/AVG /FAIR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Road Connecting project site with NH-30 | 6843 + 538 = 7381 | 7381 | 15000 | 0.4921 | C (GOOD/AVG /FAIR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flora and | Flora | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------|--|
| fauna | <p>According to IUCN Status report 2023-1 out of total 110 plant species identified within study area among the observed species <i>Chloroxylon swietenia</i> which is Vulnerable (VU) species as per IUCN RED list. The other identified plant species in the study area belongs to least concern (LC), Data Deficient (DD) and Data not evaluated (NE), as per IUCN status report 2023-1</p> <p>Fauna</p> <p>Among mammals; Jackal (<i>Canis aureus</i>), and Indian fox (<i>Vulpes bengalensis</i>) are protected in Schedule-I.</p> <p>Among the Herpetofauna, Indian Cobra (<i>Naja naja</i>), and Common Rat Snake (<i>Ptyas mucosa</i>) were provided protection as per Schedule-I of Wild life (protection) Amendment act, 2022</p> |
|-------|--|

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

SOLID WASTE GENERATION

| Sl. No. | Name of Waste generated | Qty (TPA) | Proposed Disposal Plan |
|--------------|--------------------------------------|---------------|--|
| 1. | Mill Scale | 18,000 | Sold to Ferro Alloys/Pellet Plant used as Raw Material |
| 2. | Defective Billets (IF) | 9,300 | Reused in own Induction Furnace/ Sold to other Mini Steel Plants used as Raw Material |
| 3. | Slag from Induction Furnace | 47,028 | Used for own metal recovery unit and granulated slag will be given to brick making and road making etc beneficial purpose. |
| 4. | Miss Rolls and End cuts | 8,700 | Reused in own Induction Furnace/ Sold to other Mini Steel Plants used as Raw Material |
| 5. | Refractory & Ramming Mass waste (IF) | 362 | Sold to authorized recyclers |
| 6. | Ash from Coal firing in BRF | 1,260 | Given to Fly Ash Brick making unit |
| Total | | 84,650 | |

HAZARDOUS WASTE GENERATION

| Sl. No. | Type of Hazardous Waste | H. W. Category | Quantity | Disposal |
|---------|--------------------------|-----------------------------|------------|---|
| 1. | Waste Oil/Used Oil | 5.1(as per HWM Schedule I) | 3 KL/Annum | Will be given to authorized recycler having Authorization from competent authority. |
| 2. | Used Lead Acid batteries | 17 (as per HWM Schedule IV) | — | |

20.7.15 **Public Consultation:**

| | |
|--------------------------------|---|
| Details of advertisement given | <ul style="list-style-type: none"> ➤ The Pioneer (English News Paper) Date: 28/01/2024 ➤ Patrika (Hindi Newspaper) Date: 28/01/2024 |
| Date of public | 29/02/2024 at 11:00 AM |

| | |
|---------------------|---|
| consultation | |
| Venue | Panchayat Bhawan Parisar, Village - Murethi, Siltara (Near Industrial Area), District - Raipur, Chhattisgarh |
| Presiding Officer | Additional District Magistrate, District Raipur |
| Major issues raised | <p>Major Issue raised is:</p> <ol style="list-style-type: none"> Concern about employment to Local Peoples as per their qualification, minimum wages according to the Factories Act, 1948 and employment camp. Demand to plantation work on Govt. lands or open spaces in villages Siltara & Munrethi. Development work should be done to villages from the project site under the CSR fund. Concern about Road dust, traffic, and trucks parking facilities. Need to help on the occasion of social welfare programs of the villages. Demand to paved road with murum of both side of road between Murethi to Siltara. Chances are increased of respiratory diseases due to air pollution. Concern about the water pollution and its impact on Human life. Demand to compensate for affected crops production due to air and water pollution. Demand to compensate for damaged fencing material (Cement pol and fencing wire) due to transportation of materials of company. Suggestion to 4 times water sprinkling in one day so that dust pollution can decrease. |

Action Plan as per OM dated 30.09.2020

| Sr. No. | Particulars | Physical Status | Target of Implementation of Action Plan (Timeline) | | | Rs. (in lakhs) |
|---------|--|---|---|--|--|----------------|
| | | | 1 st Year (01.04.2026 to 31.03.2027) | 2 nd Year (01.04.2027 to 31.03.2028) | 3 rd Year (01.04.2028 to 31.03.2029) | |
| 1 | Rain Water harvesting structures at Village panchayat and schools and other community places | Location: Village Siltara Work: 05 Nos. of Rain Water Harvesting Structures | Implementation of 5 Rain Water harvesting structures village Siltara | To be completed by End of Financial year | Yearly maintenance of the system implemented | 5.00 |
| 2 | Development of Green Belt /Park in open space | Location: Village Siltara Work: Development of Green Belt /Park in open space | Starting of Development of Green Belt /Park in open space at Siltra Village | Completion of work | Yearly maintenance of the green belt implemented - | 25.00 |
| 3 | School upliftment by | Location: Govt School | Identification of school and | - | - | 10.00 |

| Sr. No. | Particulars | Physical Status | Target of Implementation of Action Plan (Timeline) | | | Rs. (in lakhs) |
|---|------------------------------------|--|---|--|--|----------------|
| | | | 1 st Year (01.04.2026 to 31.03.2027) | 2 nd Year (01.04.2027 to 31.03.2028) | 3 rd Year (01.04.2028 to 31.03.2029) | |
| | way of smart classroom and library | Village Siltara Work: Development of Green Belt /Park in open space | providing smart classroom and creation of library. | | | |
| Total : (Rupees Forty Lakhs Lakhs) | | | | | 40.00 | |

20.7.16 Existing capital cost of project was Rs 11.9 Crore. The capital cost of the proposed project expansion (*Including existing + expansion cost*) is Rs. 26.90 Crores and the Capital cost for environmental protection measures is existing and proposed is estimated to be Rs. 2.95 Crores. The annual recurring cost towards environmental protection measures is proposed as Rs. 0.082 Crores. The employment generation from the proposed expansion project is 440 (50 Administrative Staff + 390 Production Staff). The details of cost for environmental protection measures are as follows:

| Sl. | Particulars | Qty. in Nos. | Existing (Rs. In Lakhs) | Proposed addition (Rs. In Lakhs) | Total cost after expansion (Rs. In Lakhs) | Operation & Maintenance cost (Rs. In Lakhs) |
|--|--|--------------|-------------------------|----------------------------------|---|---|
| Plant and Machinery proposed for EMP | | | | | | |
| 1 | Cost of Bag Houses for Induction Furnaces | 1 | 25 | - | 25 | 0.63 |
| 2 | Cost of Wet Scrubber for Reheating Furnace | 1 | 15 | - | 15 | 0.38 |
| Building and Civil works used for EMP | | | | | | |
| 3 | Cost of Chimney in Induction Furnace Plant | 1 | 10 | - | 10 | 0.25 |
| 4 | Cost of Chimney in Billet Reheating Furnace | 1 | 10 | - | 10 | 0.25 |
| 5 | Oil Trap in the drains system | 1 | 2 | - | 2 | 0.05 |
| 6 | Silt Arrestation Pit in Storm Water Drains | 1 | 5 | - | 5 | 0.13 |
| 7 | Internal Road Black topping and other construction works for Paving the Floors | | 10 | 15 | 25 | 0.63 |
| 8 | Drainage system | | 5 | 15 | 20 | 0.50 |
| Exclusive cost of works used for EMP | | | | | | |
| 9 | Cost of Septic Tank and Soak pit for Domestic Waste Water | 1 | 1.5 | 5 | 6.5 | 0.16 |
| 10 | Green Belt Plantation along | | 2 | 2 | 4 | 0.10 |

| Sl. | Particulars | Qty. in Nos. | Existing (Rs. In Lakhs) | Proposed addition (Rs. In Lakhs) | Total cost after expansion (Rs. In Lakhs) | Operation & Maintenance cost (Rs. In Lakhs) |
|------------------------------------|--|--------------|-------------------------|----------------------------------|---|---|
| | with Irrigation System and Pipe Line | | | | | |
| 11 | Cost of compensatory Greenbelt Plantation | | 50 | - | 50 | 1.25 |
| 12 | Fugitive dust Control Spray system in Plant | 4 | 4 | - | 4 | 0.10 |
| 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 Induction Furnace and Rolling mill | 2 | 3 | - | 3 | 0.08 |
| 16 | On Line AAQ monitoring station | | | 35 | 35 | 0.88 |
| 17 | Respirable dust sampler, Noise meter and Stack Monitoring Kits1 | 1 | 1.5 | - | 1.5 | 0.04 |
| 18 | Ground water Monitoring Piezo Meters | 1 | 1 | - | 1 | 0.03 |
| 19 | On Line Effluent Quality Monitoring System (EQMS) | - | | 6 | 6 | 0.15 |
| 20 | Environment Monitoring Laboratory Testing Equipment and Chemicals and Furniture and computer systems etc | - | 5 | - | 5 | 0.13 |
| 21 | Rain Water Harvesting and Recharge system with Roof Harvesting and Rain Water Collection Tank | - | 2 | 3 | 5 | 0.13 |
| 22 | Noise Reduction enclosure/ anti vibration pad etc. | - | 2 | - | 2 | 0.05 |
| 23 | Conservation Measures & Other Miscellaneous | - | 3 | 5 | 8 | 0.20 |
| 24 | CER works for improvement of surrounding Environment | - | 9 | 30 | 39 | - |
| 25 | Biological Conservation Plan | - | - | 10 | 10 | 2.0 |
| Total Expenses in Lakhs Rs. | | - | 169 | 126 | 295 | 8.20 |

20.7.17 Existing green belt has been developed in 0.46 ha area which is about 19% of the total project area of 2.39 ha with total sapling of 1000 Trees. Additional greenbelt has been developed in 0.784 ha outside premises within 5 Km Radius Area. Thus, total of 1.246 ha area (52%) has been developed as greenbelt. 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/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 3110 saplings has been planted and nurtured in 1.246 hectares.

20.7.18 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

20.7.19 The Status of compliance of earlier EC was obtained from Regional Office, MoEFCC, Raipur, vide letter no F.No. RPR/ENV/IND/26/2021 /106 dated 26.07.2024 in the name of M/s. Agrawal Channel Mills Private Ltd. The Action taken report regarding the observation was submitted to Regional officer MoEF&CC, Raipur, Chhattisgarh dated 05.09.2024. MoEF&CC (RO), Raipur, Chhattisgarh evaluated the same and has issued vide F.No.IRO-RPR/ENV/IND/26/2021/13 dated 21.04.2025. The details of the observation made by RO is as follows.

| Sl. No. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
|----------------|---|--|--|
| 1. | No all copies of CTE/CTOs since the operation of the industry have been received in this Office. Therefore, the proponent is instructed to furnish all copies of CTE/CTOs (Statutory Compliance, Condition no.ii, page no.1). | <p>We have already submitted the copies of all obtained CTE/CTO through hard drive dated- 23.07.2024 (a hard copy is also submitted to your good office dated- 25.07.2024) (acknowledge of email & hard copy is enclosed as Annexure-01).</p> <p>We are submitting again copies of all Obtained CTE/CTO.</p> <ol style="list-style-type: none"> Grant of consent 672/RO/TS/CECB/2015 and 673/RO/TS/CECB/2015 Raipur dated 10/06/ for water. Renewal of consent 923/RO/TS/CECB/2016 Raipur, Dated-30/06/2016 and 924/RO/TS/CECB/2016 Raipur, Dated- 30/06/2016 for rerolled product (through Induction Furnace)- 30.000MT/Year valid till 31/05/2019. | <p>Project Authority in their reply has furnished the copies of CTOs obtained. Project Authority in their reply erroneously mentioned the validity of CTO renewed is till 31/12/2024. However, CTO renewed is valid till 31/12/2025. Copy of CTE obtained after EC has not been made available in their reply.</p> |

| Sl. No. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
|---------|--|--|--|
| | | <p>3. Renewal of consent 1210/RO/TS/CECB/2016 Raipur, Dated-28/07/2016 and 1211/RO/TS/CECB/2016 Raipur, Dated- 28/07/2016 for rerolled product (through Induction Furnace)- 30,000VIT/Year valid till 31/05/2019.</p> <p>4. Renewal of consent 927/RO/TS/CECB/2019 Raipur, Dated-29/05/2019 for Hot Charging- 30,000VIT/Year valid till 31/05/29.</p> <p>5. Renewal of consent 1126/RO/TS/C ECB/2019 Raipur, dated 14/06/2019 for Hot Charging-30,000N4T/Year valid till 31/05/24.</p> <p>6. Grant of consent 3227/RO/TS/CECB/2022 Raipur, Dated-20/01/2022 for Hot Charging- 59,500MIT/Year.</p> <p>7. Renewal of consent 4711/RO/1-S/CEC13/2023 Raipur, dated 08/02/2023 for Hot Charging- 59,500MT/Year valid till 31/12/24.</p> <p>We are again enclosing copy of CTE/CTO.</p> | |
| 2. | No authorization letter for the period from 20/9/2021 to | We have already submitted the copy of authorization letter obtained under Hazardous and Other Waste (Management and | Project Authority in their reply neither submitted authorization letter obtained for the period 20/9/2021 to 13/4/2023 nor |

| Sl. No. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
|---------|--|---|---|
| | <p>13/4/2023 has been obtained. Therefore, the proponent is instructed to clarify for not obtaining authorization from CECB or submit copy of authorization letter, if obtained, to this Office</p> <p>(Statutory Compliance, Condition no.iv, page no.2).</p> | <p>Trans boundary Movement) Rule 2016 (vide letter No. 222/HSMD/HO/CECB/2023 dated- 17/04/2023 valid till 13/04/2028) through email dated-23.07.2024 (a hard copy is also submitted to your good office). The copy for the same is submitted.</p> | <p>made any clarification for not obtaining the same for the said period rather submitted a copy of authorization letter obtained under Hazardous and other Waste (Management and Transboundary Movement) Rule 2016 from the CECB vide letter No. 222/HSMD/HO/CECB/2023 dated 17/04/2023, which is valid till 13/04/2028.</p> |
| 3 | <p>Continuous stack emission monitoring system has not been connected to CECB/CPCB servers. Therefore, the proponent is instructed to connect to CECB/CPCB servers and submit details and monthly stack emission reports to this Office</p> <p>(Air Quality Monitoring and Preservation, Condition no.i, page no.2)</p> | <p>The continuous stack emission monitoring system are well connected to servers the details are as follows:</p> <p>Raw Coal Received: https://www.pollution-monitor.com/ Agrawal_Channel AC@123</p> <p>The monthly stack emission detail for the month of July and August is submitted. The photographs and online emission data report has already been submitted along with Six monthly compliance report submitted through email to your office on dated-18.04.24 at 18.45 as part of EC compliance a hard copy has also submitted to IRO dated-29.04.2024. (acknowledged copy of submission is submitted.</p> | <p>From the reply of the Project Authority, it has been observed that online continuous emission monitoring system has been installed and reportedly monitored data has been linked to the server of the supplier.</p> <p>Further, the user id and password furnished in the reply is not valid, so this Office unable to verify the status. Project Authority has not linked the OCEMs installed with the servers of the CPCB. Project Authority informed that the matter is being pursued through their supplier.</p> |
| 4 | <p>No six-monthly compliance reports (except six monthly</p> | <p>We are submitted six monthly compliance; the details are as follows:</p> | <p>Project Authority in their reply furnished the supporting documents regarding the six-monthly compliance report</p> |

| Sl. No. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 | | | | | | | | | | |
|---|--|--|--|-----------------|---|--|---|--|---------------------------------------|--|---------------------------------------|--|---|
| | <p>compliance report October 2023 (March 2024) and monthly stack emission reports have been received in this Office</p> <p>Therefore, the proponent is instructed to clarify for not submitting regularly six monthly compliance reports and monthly stack emission reports to this Office and also to other regulatory authorities (Air Quality Monitoring and Preservation, Condition no.v, page no.3)</p> | <table border="1"> <thead> <tr> <th>Compliance period</th><th>Submission date</th></tr> </thead> <tbody> <tr> <td>April 2022 to Sep 2022 (Annexure-06)</td><td>Through email 03.05.2023 Hard copy 10.05.2023</td></tr> <tr> <td>Oct 2022 to March 2023 (Annexure-07)</td><td>Through email 28.06.2023 Hard copy 03.07.2023</td></tr> <tr> <td>April 23 to Sep 2023 (Annexure-08)</td><td>Through email 18.04.2024 Hard copy 29.04.2024</td></tr> <tr> <td>Oct 23 to March 2024 (Annexure-09)</td><td>Through email 31.08.2024 Hard copy 25.07.24</td></tr> </tbody> </table> | Compliance period | Submission date | April 2022 to Sep 2022 (Annexure-06) | Through email 03.05.2023 Hard copy 10.05.2023 | Oct 2022 to March 2023 (Annexure-07) | Through email 28.06.2023 Hard copy 03.07.2023 | April 23 to Sep 2023 (Annexure-08) | Through email 18.04.2024 Hard copy 29.04.2024 | Oct 23 to March 2024 (Annexure-09) | Through email 31.08.2024 Hard copy 25.07.24 | <p>submitted to the regulatory Authority.</p> |
| Compliance period | Submission date | | | | | | | | | | | | |
| April 2022 to Sep 2022 (Annexure-06) | Through email 03.05.2023 Hard copy 10.05.2023 | | | | | | | | | | | | |
| Oct 2022 to March 2023 (Annexure-07) | Through email 28.06.2023 Hard copy 03.07.2023 | | | | | | | | | | | | |
| April 23 to Sep 2023 (Annexure-08) | Through email 18.04.2024 Hard copy 29.04.2024 | | | | | | | | | | | | |
| Oct 23 to March 2024 (Annexure-09) | Through email 31.08.2024 Hard copy 25.07.24 | | | | | | | | | | | | |
| 5 | <p>No ETP/STP has been observed. No industrial effluent and domestic effluent reports have been received.</p> <p>Therefore, the proponent is instructed to provide ETP/STP and submit industrial effluent and domestic effluent reports</p> | <p>In our unit Induction Furnace, CCM and Hot Charging rolling mill has been implemented and operated under this EC, in which water is required for cooling purpose. We have adopted closed circuit cooling system for cooling, in which water is regularly recirculated. Therefore, there is no effluent water generated. A setting tank has been provided in which mill scale and other particle are settled and water is recirculated. No industrial waste water generation. As the domestic waste water generation is less</p> | <p>Water is being used only for cooling purpose, which is being recirculated and there is no any process effluent generation.</p> <p>Settling tank has been provided. There is no disposal of water outside the plant premises. Presently no STP has been installed. Domestic wastewater generation is reportedly less than 10 KLD, which is being treated through soak pit.</p> | | | | | | | | | | |

| Sl. No. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
|---------|---|--|--|
| | to this Office (Water Quality Monitoring and Preservation, Condition no. i & iii, page no.4 & 5) | than 10 KLD thus we have provided soak pit for domestic waste water | |
| 6 | No collection pit to arrest runoff water has been observed received (Water Quality Monitoring and Preservation, Condition no.iv, page no.5) | We have provided drain line for rain water flow as well as rain water storage tank inside the premises to collect water. We are enclosing photograph of rain water storage tank. | The photograph furnished in the reply is not relevant to the collection pit. It is water reservoir for storing the water received from CSIDC. Drains have been constructed and the same is connected to the small storage tank located within the plant. |
| 7 | No solar rooftop has been observed. Therefore, the proponent is instructed install solar rooftop as imposed in the EC and furnish details to this Office (Energy Conservation Measures, Condition no.ii, page no.5). | We have installed solar panel on rooftop of canteen building inside the plant premises. We are enclosing photograph of solar panel | After the previous visit of this Office, Project Authority has installed 16KW solar power generation on the rooftop of the building within the project. Photograph of the same is furnished below. |
| 8 | The proponent has not submitted comprehensive details w.r.t. recycled, reused and sold refractories year-wise. Therefore, the proponent is instructed to furnish details to this Office | We are submitting year wise solid waste and hazardous waste details. We are enclosing details of solid and hazardous waste | Project Authority in their reply furnished the details of solid waste and hazardous waste generated. However, the data received from the PA along with the reply does not bear signature of the Competent Authority. Project Authority shall ensure compliance regarding safe disposal of solid wastes and sludge as stipulated in the EC condition. |

| Sl. No. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
|---------|---|---|---|
| | (Waste Management, Condition no. i & ii, page no.6.) | | |
| 9 | The proponent has not submitted details of fly ash generation, quantity used and quantity sold. Therefore, the proponent is instructed to furnish details to this Office (Waste Management, Condition no.iv, page no.6.). | In our unit there is no generation of fly ash. We are using fly ash Bricks/Blocks for construction and repairing activity inside the plant premises. | Project Authority claims that there is no fly ash generation from the Unit. Further, Project Authority declared that they are using fly ash Bricks / Blocks for construction and repairing activities undertaken within the Unit. The condition stipulated in the EC does not specify the generation of fly ash from this Unit and its utilization. |
| 10 | No heat stress analysis reports have been received in this Office. Therefore, the proponent is instructed to submit heat stress analysis report to this Office (Human Health Issues, Condition no. ii, page no.7) | We have done heat stress analysis of workers. We are enclosing copy of heat stress analysis | Project Authority in their reply furnished the documents in support of their claim that heat stress analysis of workers have been undertaken. |
| 11 | The proponent could not show CER activities carried during inspection. Therefore, the proponent is instructed to | We have done CER activities and spent around 15,71,960 Lakhs Rs as CER cost. Details of CER activities has been incorporated six monthly EC compliance period October 2023 to March 2024 in Annexure-22. We are enclosing copy of CER activity details. | Project Authority in their reply submitted that various activities are undertaken under Corporate Environment Responsibility (CER) and reportedly spent an amount of Rs. 1571960/- . The said declaration made available by the PA does not bear the signature of the Competent Authority. If required, Ministry |

| Sl. No. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
|---------|--|--|--|
| | furnish details to this Office (Corporate Environment Responsibility, Condition no.i, page no.7). | | may seek audited statement from the Project Authority. |
| 12 | <p>No details of action plan for implementing EMP, funds allocation and year-wise progress reports have been received in this office.</p> <p>Therefore, the proponent is instructed to submit action plan for implementing EMP, funds allocation and year-wise progress reports to this Office for further action</p> <p>Office 2. (Corporate Environment Responsibility, Condition no. iv, x, page no.8, 10 & 11)</p> | <p>We have implemented EMP as follows:</p> <ol style="list-style-type: none"> 1. We have implemented Air Pollution control equipment as suction hood, bag filter and Chimney. 2. We have also provided online stack monitoring system 3. We have carrying out third part quarterly monitoring of Stack emission, AAQ, emission, noise etc. 4. Fugitive We have provided closed circuit cooling system. 5. Internal road have been made pucca. 6. Water sprinklers have been provided 7. Greenbelt have been developed. 8. Regular maintained of moving equipment is being done for to control noise. <p>Year-wise EMP activity cost details is submitted</p> | The Project Authority in their reply furnished the activities undertaken as committed and recommendations made in the EIA / EMP report. However, the input furnished is unsigned. |
| 13 | No evidences of six-monthly compliance reports uploaded on the Ministry's website have been received in this Office neither on the company's | We have uploaded six-monthly EC compliance period April to September 2023 and October 2023 to March 2024 on the Ministry's website-PARIVESH. Enclosed Screenshot of PARIVESH | Project Authority in their reply informed that six monthly compliance report has been uploaded on the website of the Company. However, compliance of the same could not be ascertained from the website of the Unit. Project Authority made available the supporting document regarding submission |

| Sl. No. | Observed non-compliances communicated vide letter dated 26/7/2024 of MoEF&CC, Sub-Office, Raipur | Reply of the Project Authority vide their letter dated 02/9/2024 | Updated status of compliance / comments of Sub-Office, Raipur as on 21 April 2025 |
|---------|---|--|--|
| | <p>website. Therefore, the proponent is instructed to comply and furnish details to this Office (Miscellaneous, Condition no.v & vii, page no.9 &.10).</p> | | <p>of six-monthly compliance report on the PARIVESH web portal.</p> |
| 14 | <p>The Proponent has informed that environmental statement shall be submitted to CECB and this office before 30th September every year and displayed on the website. Further it has been informed that financial closure shall be submitted. Therefore, the proponent is instructed to submit copies of environmental statement and financial closure to this Office at the earliest (Miscellaneous, Condition no.viii, page no.9)</p> | <p>We are submitting environment statement and data sheet of year 2024 along with EC compliance period October 2023 to March 2024. We are enclosing copy of Environment Statement Annexure-17 and Data Sheet</p> | <p>Project Authority informed that they are submitting the environment statement to the regulatory Authorities. However, no supporting documents are made available in their reply regarding submission of the same.</p> |

20.7.20 CPA/ SPA Action Plan in compliance to CEPI Guidelines:

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure |
|--------|---|-----------------------------------|
| A | Environmental Regime: Air Environment | |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure |
|--------|--|--|
| I | <p>CECB has already stringent particulate matter emission limit to 50 mg/Nm³ However units shall adhere to stringent air pollutants standards i.e. 60% of existing flue gas and proves emission limit may be prescribed as 30 mg/Nm³ for new and expansion/diversion activities.</p> <p>For expansion or diversification activity, the pollution load shall not exceed the existing load for which consent has been granted. If any industrial group has another units together may be considered.</p> | <p>At present the company maintaining PM³ emission level well within 25 mg/Nm³, through high efficiency bag filters at SMS (Induction Furnace): and Particulate emission at Billet Reheating furnace is being kept within 50 mg/Nm³ PM through wet scrubber.</p> <p>However, after proposed expansion project emission level within 30 mg/Nm³ particulate matter emission, will be achieved by improving efficiency of Wet scrubber attached with BRF.</p> <p>No additional time required for the same</p> |
| II | <p>Large and medium red category industries shall install and commission Continuous Emission Monitoring System – CEMS (as per CPCB guidelines for relevant parameters) which shall be connected with CECB/CPCB server.</p> | <p>Online stack monitoring system has been installed for existing facilities, no new stack proposed , online stack monitoring system and connected with CECB/CPCB server from first day of operation.</p> <p>No additional time required for the same</p> |
| III | <p>Units shall adhere to sector specific guidelines / SOP published by CPCB from time to time for effective fugitive emission control.</p> | <p>The company is following all the sector specific guidelines/SOP published by CPCB from time to time for effective emission control. In expansion also we will comply with the same. In this direction we have concreted most of the existing internal roads and storing most of the fragile material under shed. Water sprinkling is being done on most of the dust prone areas. Coal and Iron ore are transported in well covered \ trucks.</p> |
| IV | <p>The raw materials, solid fuels, products (which have tendency to generate dust while handling / transportation) and solid wastes shall be stored in covered shed with arrangement of water sprinkling /dust suppression systems</p> | <p>Storage of all raw material and solid waste (having tendency of dust generation) at covered manner will be provide.</p> <p>Water sprinkling systems will be provided at dust prone zone i.e. road, storage and handling areas.</p> <p>Wheel washing system is also being installed.</p> <p>In addition we have proposed to install mist fogging arrangement for control of fugitive dust 4 No. of HVS monitoring station to effective monitoring of AAQ.</p> <p>It is also proposed to conduct quarterly third party monitoring for fugitive dust.</p> <p>This will be completed along with implementation of expansion activity.</p> |
| V | <p>Conveying System /conveyor belt shall be completely closed. All</p> | <p>The company have provided and will provide enclosures to all the conveyors, The transfer</p> |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure |
|--------|--|---|
| | transfer points/ junction points shall be fitted with dust suppression system followed by bag filter. | points are/and will be provided with dust suppression systems. This will be completed along with implementation of expansion activity. The system will be in operation from very first of day of operation of expanded capacity. |
| VI | Vehicle movement areas/ roads within premises shall be made pucca from drain to drain to avoid dusting. | All internal roads have been made pucca for existing's facilities Mist fogging/ water sprinkling arrangement to arrest fugitive emission will be provided. All these facilities will be provided during commissioning of expansion production capacity of the project We ensure good housekeeping and minimum fugitive dust generation due to transportation. |
| VII | Odour generating units shall take adequate measures to control odour nuisance from the industrial activities which may include measures like – use of masking agent with atomizer system (water curtain) closed/ automatic material handling system containment of the odour vulnerable areas etc. | No odour generation is envisaged in our industry. |
| VIII | Units shall provide wheel wash system at entry and exit point of plant to control wheel generated dust. | The company will implement wheel wash system in entry and exit gate along with implementation of expansion activity. The system will be in operation from very first of day of operation of expanded capacity. |
| IX | Transportation of raw materials, solids fuels, products (which have tendency to generate dust while handling / transportation) and solid wastes shall be transported through mechanically covered / properly covered vehicles | We are complying with this, All the material / waste/fuel are being and will be transported through properly covered (with tarpaulin) vehicles, in expansion also the transportation of raw material/solid waste, fuel with tendency of dust generation will be transported in Properly covered manner. We will ensure minimum dust generation during transportation. |
| X | Units shall not use coal, pet-coke, furnace oil, LSHS as a fuel for new and expansion/diversification activities. | There is no proposal for use of additional fossil fuel coal, pet-coke, furnace oil in existing or proposed expansion project. The proposed expansion will be based on electrical operated Induction Furnace and Hot charging based Rolling Mill. |
| XI | Units shall adopt sectorial Best Available Technology – BAT (Like | Best available technology shall be adopted for |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure |
|--|--|---|
| | use of Induction Furnace, Electric Arc Furnace instead of Cupola Furnace, Caustic Recovery System in Cotton Textile units etc. | doing production through induction furnace and CCM and also adopted hot charged facilities to produce rerolled products. |
| XII | Units shall provide green belt of 40% of the total plot area. In case there is restriction of land available within plant premises for 40% green belt development, then the unit shall carry out balance plantation within 05 km radius from its premises to achieve the required plantation of 40%. | <p>The Units is set up in a very old Industrial Plot in which it is difficult to acquire additional land in adjoining plot thus.</p> <p>We have developed 40% green belt (Partly within plant premises + and Partly within 05 km radius from our plant premises)</p> <p>0.46 Ha (19%) land area under green Belt is within plant remises and additional greenbelt has been developed at khsara No 506/1 (area 0.784 ha.) at village Akoli, P.H. No. 21/93, RNN Dharsiwa, Tahsil and District- Raipur (CG), which about 3.5 KM at east direction from plant premises. Thus total greenbelt is 1.246 Ha. i.e. 52%.</p> <p>We request you to kindly allow the same. The greenbelt is already completed.</p> |
| XIII | Units situated other than industrial areas shall submit certificate regarding adequacy of roads based on carrying capacity of transportation load on roads from concerning EE, PWD / Concerned Authority of Government of Chhattisgarh. | The Unit is located Industrial area developed by State Govt as Industrial Growth Center and it has quire wide roads and have adequate transportation capacity. However: We will obtain adequacy of road certificate from concerned authority before commissioning of expansion project. |
| B. Environmental Regime: Water Environmental | | <ul style="list-style-type: none"> • Complying with this and closed circuit cooling system has been implemented for existing facilities. In which water will be regularly re-circulated and reused. • Closed Circuit Cooling system will be adopted. Industrial waste water (46 KLD) will be treated in ETP (Cap. 50 KLD) Thus, 40 KLD treated industrial waste water will be generated, which will be used in process. • ZLD norms will be complied. • Domestic waste water generation (16 KLD) will be treated in STP (Cap. 25 KLD). Treated water will be used for greenbelt development and dust suppression. The STP will be installed along with capacity expansion project. • The system will be in operation from very first of day of operation of expanded capacity. |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|--|--------------|----------|-----------------------|------------|------------------------|------|-----|------|-------------------|------|-----|------|--------------------|-----|-----|------|-------------------|------|-----|------|--------------|-----|-----|-----|-----------|------|-----|-----|----------------|------|-----|------|---------------------------|--------|-----|-------|-----------------------|----------------|--|--------------|
| xv | Large and Medium Red category industries shall install system for continuous monitoring of effluent quality/quantity as per CPCB guidelines for relevant parameters (like pH Flow Temperature, TOC/COD etc.) and shall be connected to CECB server. Unit shall also install flow meter. | will implement continuous effluent quality and quantity /quality monitoring system before commission of expansion activity. Zero discharge is being followed and will be maintained during expansion project. The system will be in operation from very first of day of operation of expanded capacity. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| XVI | No ground water withdrawal shall be allowed without permission of CGWA. Units shall use harvested rainwater in the process as maximum as possible. | will comply with this The Total freshwater requirement after expansion will be 425 KLD. The existing and proposed source of water is from Chhattisgarh ispat Bhumi Limited (Industrial Water supply Network). No ground water abstraction is envisaged in the project. However, the company will recharge rain water within plant premises. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| XVII | Units shall submit calculation regarding total storm water received in the premises potential of rain water harvesting and quantity to be harvested along with details of proposed structures. | Calculation of Runoff and rain water harvesting structures is given below: As per CGWA guidelines on runoff potential and accordance with proposed area statement total runoff potential 14097 KLA. <div style="border: 1px solid black; padding: 10px; width: fit-content;"> <table border="1"> <thead> <tr> <th>Land use</th> <th>Area SQM</th> <th>Coefficient of Runoff</th> <th>Runoff SQM</th> </tr> </thead> <tbody> <tr> <td>Induction Furnace Area</td> <td>5100</td> <td>0.9</td> <td>5508</td> </tr> <tr> <td>Rolling Mill area</td> <td>1900</td> <td>0.9</td> <td>2052</td> </tr> <tr> <td>Finished Good Area</td> <td>980</td> <td>0.9</td> <td>1058</td> </tr> <tr> <td>Raw Material Yard</td> <td>1100</td> <td>0.9</td> <td>1188</td> </tr> <tr> <td>Parking Area</td> <td>950</td> <td>0.6</td> <td>684</td> </tr> <tr> <td>Road Area</td> <td>1100</td> <td>0.4</td> <td>528</td> </tr> <tr> <td>Greenbelt Area</td> <td>9585</td> <td>0.2</td> <td>2300</td> </tr> <tr> <td>Area for Future Expansion</td> <td>3242.4</td> <td>0.2</td> <td>778.2</td> </tr> <tr> <td>Total (Sq. m.)</td> <td>23957.4</td> <td></td> <td>14097</td> </tr> </tbody> </table> </div> | Land use | Area SQM | Coefficient of Runoff | Runoff SQM | Induction Furnace Area | 5100 | 0.9 | 5508 | Rolling Mill area | 1900 | 0.9 | 2052 | Finished Good Area | 980 | 0.9 | 1058 | Raw Material Yard | 1100 | 0.9 | 1188 | Parking Area | 950 | 0.6 | 684 | Road Area | 1100 | 0.4 | 528 | Greenbelt Area | 9585 | 0.2 | 2300 | Area for Future Expansion | 3242.4 | 0.2 | 778.2 | Total (Sq. m.) | 23957.4 | | 14097 |
| Land use | Area SQM | Coefficient of Runoff | Runoff SQM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Induction Furnace Area | 5100 | 0.9 | 5508 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rolling Mill area | 1900 | 0.9 | 2052 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finished Good Area | 980 | 0.9 | 1058 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Raw Material Yard | 1100 | 0.9 | 1188 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parking Area | 950 | 0.6 | 684 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Road Area | 1100 | 0.4 | 528 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Greenbelt Area | 9585 | 0.2 | 2300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Area for Future Expansion | 3242.4 | 0.2 | 778.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total (Sq. m.) | 23957.4 | | 14097 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure |
|--------|--|--|
| | | <p>At present we have implemented total 2 Nos. of RWH</p> <p>It is proposed to implement additional six New RWH facilities of Recharge structures.</p> |
| XVIII | <p>Units shall ensure recharging of ground water by rainwater harvesting of at-least double the quantity of water use by them. Which shall be done within or outside the premises.</p> | <p>All through we are not proposing to use ground water however We have implemented total 2 Nos. of RWH</p> <p>It is proposed to implement additional six New RWH facilities of Recharge structures.</p> <p>We will also implement additional recharge structures outside the project premises under CER to maximum artificial recharge.</p> |
| XIX | <p>Units shall explore Techno-Economic feasibility of Discharge (ZLD) and if feasible, ZLD should be adopted.</p> | <p>Zero discharge is being maintained.</p> |
| XX | <p>Units having domestic waste water generation more than 10 KLPD shall install STP of adequate capacity and treated effluent shall be reused/recycled within plant premises.</p> | <p>At present domestic water consumption is within 10 KLD therefore we have implemented Septic tank and soak pit.</p> <p>The domestic water requirement after expansion will be 20 KLD. Domestic waste water generation (16 KLD) will be treated in STP (Cap. 25 KLD). Treated water will be used for greenbelt development and dust suppression</p> <p>The STP will be in operation from the very first day of operation of expanded capacity.</p> |
| XXI | <p>Units shall provide green belt of 40% of the total plot area. In case there is restriction of land available within plant premises for 40% green belt development then the unit shall carry out balance plantation within 05 km radius from its premises to achieve the required plantation of 40%.</p> | <p>We have developed 40% green belt (within plant premises + within 05 km radius from our plant premises)</p> <p>0.46 Ha. (19%) is within plant premises and additional greenbelt have been developed at khsara No 506/1 (area 0.784 ha.) at village Akoli, P.H. No. 21/93, RNN Dharsawa, Tahsil and District Raipur (CG), which is about 3.5 KM at east direction from plant premises. Thus total greenbelt is 1.246 Ha. i.e. 52%</p> <p>We request you to kindly allow the same</p> <p>The development of Greenbelt completed</p> |
| XXII | <p>Development of green belt/ plantation outside project premises in adjacent areas such as avenue plantation, plantation in vacant areas, social forestry, etc. shall be ensured.</p> | <p>We have also done avenue plantation and in expansion also we will maintain the same.</p> |
| XXIII | <p>Units shall strictly carry out handling.</p> | <p>complying with this.</p> |

| S. No. | Mitigation Measure Prescribed by CECB (Stipulation of conditions) | Compliance and mitigation measure |
|--------|--|--|
| | Storage and disposal of fly-ash, slag, red-mud, sludge etc. (High Volume-Low Effect Wastes) as per prevailing guidelines and its disposal at designated locations approved by the Board. | <ul style="list-style-type: none"> ▪ In the induction furnace slag is being and will be given to metal recovery units for metal recovery or in case used internally for the same then the ground slag will be used to making bricks. ▪ Refractory waste like silica lining is being and will be sold to the authorized refractory recycling units. ▪ Mill Scale will be sold to Ferro Alloy plant. ▪ Coal Ash generated will be given to fly Ash brick/block making unit. ▪ Grounded Induction Furnace slag will be given to fly Ash brick/block making unit. ▪ Defective Billets, Miss Roll, End Cutting will be sold or used in own induction furnace. |
| XXIV | <p>Units shall dispose its hazardous wastes through co-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016.</p> <p>Units shall strictly comply with all the measures specified in guidelines for spent solvent management spent acid management and other guidelines / directions published from time to time by CECB/CECB/MoEF&CC.</p> | <p>agree to it.</p> <ul style="list-style-type: none"> • The generated used oil and waste oil estimated to be around 3 KL/year will be given to authorized recycler having authorization from complaint authority. • The lead acid battery or dry battery will be given to authorized recycler having authorization from competent authority. <p>E-waste generated from the plant will be given to authorized recycler having authorization from competent authority.</p> |
| XXV | Units shall carry out transportation of hazardous wastes through GPS mounted vehicles only. | agree to it |
| XXVI | All Environmental Clearance granted units shall submit report of compliance of the conditions of EC every year to the Board prepared by third party. | agree to it |
| XXVII | New and expansion/ diversification units which will obtain Environmental Clearance shall enhance GER fund allocation to 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 | <p>agree to it.</p> <p>Being it is brownfield project with project cost less than 100 Crores, the CER obligation will be 1% however being located in CPA we herewith propose the CER obligation i.e. @ 2% of project cost. The cost of CER will be Rs. 30.00 Lakhs.</p> |

20.7.21 **COMPLIANCE STATEMENT W.R.T. THE VARIOUS APPLICABILITY**

| Sl. No. | Particulars | Applicability of OM | Compliance Statement |
|----------------|--|---|--|
| 1. | Land Acquisition | MoEF&CC O.M. dated 07.10.2014 and OM of MoEFCC, New Delhi dtd. 20 th Feb. 2025 | <p>Complied</p> <p>As the proposed expansion will be carried out within the existing plant premises of 2.39 Ha at Plot No. 34-35, Phase-II, Industrial Growth Centre, Siltara, Raipur, Chhattisgarh. No additional land is required.</p> <p>The Copy of Land Documents are already submitted at ministry. Hence, it complies all documentary evidences pertaining to land</p> <p>The above documents confirm the OM dated 07-10-2014 and 20th Feb. 2025</p> |
| 2. | Presence of Stream/Nallah within Site | MoEF&CC Notification, G.S.R. 85(E) dated 30 th January 2025 | <p>Red category, beyond five hundred meters:</p> <p>Complied</p> <p>Complied, this is brownfield project, the unit lies in Siltara Industrial Area, there is no major river in the vicinity of the project site. Nearest water body Kharun River – 4.90 km (West). Hence, the unit not falling in flood plain/HFL/Red line.</p> <p>Complied.</p> <p>Nearest educational institute Jagmohan Lal Higher Secondary School, Sankara – 1.42 km (ESE).</p> <p>Note: ToR was granted to the proposed brownfield project on IA-J-11011/298/2023-IA-II(IND-I) dated 28th November, 2023. before MoEF&CC Notification, G.S.R. 85(E) dated 30th January 2025</p> |
| 3. | Validity of ToR, Baseline Data and Public Hearing | F. No. IA3-22/10/2022-IA.III [E 177258] OM dated 08th June 2022 | <p>Complied.</p> <ul style="list-style-type: none"> Terms of Reference (ToR) Validity: The ToR is valid for a period of four years, from 28/11/2023 to 28/11/2026, in accordance with Office Memorandum F. No. IA3-22/10/2022-IA.III [E 177258] OM dated 08th June 2022 Application for Environmental Clearance (EC): M/s. Agrawal Channel Mills Private Limited has submitted the application for EC on 21/12/2024 via the PARIVESH Portal, which is within the validity period of the ToR. Baseline Environmental Monitoring: |

| Sl. No. | Particulars | Applicability of OM | Compliance Statement |
|---------|--|--|---|
| | | | <p>Baseline monitoring was conducted during the Winter Season, from Pre-monsoon Season (15th Mar 2023 – 15th June 2023)</p> <ul style="list-style-type: none"> As per the provisions of OM dated 08th June 2022, the monitoring data remains valid for use in the EC application. The CECB, Chhattisgarh conducted Public Consultation for the proposed brownfield project of M/s. Agrawal Channel Mills Private Limited on 29/02/2024 at 11:00 AM at Panchayat Bhawan Parisar, Village - Murethi, Siltara (Near Industrial Area), District - Raipur, Chhattisgarh <p>Thus, overall project complies the MoEFCC, New Delhi OM dated 8th June 2022</p> |
| 4. | Certified Compliance Report (CCR) | IA3-22/10/2022-IA.III [E 1772581] dated 08.06.2022 | <p>Complied</p> <p>Present Status:</p> <ul style="list-style-type: none"> ATR Review letter has been received from IRO, Raipur vide F.No. IRO-RPR/ENV/IND/26/2021/13 on dt. 21.04.2025 <p>Thus, the project complies with the stipulated requirement.</p> |
| 6. | Critically Polluted Area (CPA) / Severely Polluted Area (SPA) | 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 | <p>Applicable.</p> <p>The project falls within Siltara Industrial Area, a Critically Polluted Area under CEPI – 2018. Accordingly, a point-wise action plan has been prepared under the CEPI Area Management Plan for the proposed expansion.</p> <p>The induction furnace-based existing and proposed expansion is based on clean technology, which is categorized as Orange category by CPCB. PM emission limit is being maintained at 25 mg/Nm³.</p> |

20.7.22 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

| Sl. | Compliance Condition | Compliance Statement |
|-----|---|--|
| 3. | 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 - |

| Sl. | Compliance Condition | Compliance Statement |
|-------|--|---|
| (i) | Red category, beyond five hundred meters | <p>Complied</p> <p>Complied, this is brownfield project, the unit lies in Siltara Industrial Area, there is no additional land required for the project, there is no major river in the vicinity of the project site. Nearest water body Kharun River – 4.90 km in West Direction from the Project Site. Hence, the unit not falling in flood plain/HFL/Red line.</p> <p>Red category, beyond five hundred meters:</p> <p>Note: ToR was granted to the proposed brownfield project on IA-J-11011/298/2023-IA-II(IND-I) dated 28th November, 2023. before MoEF&CC Notification, G.S.R. 85(E) dated 30th January 2025</p> |
| (ii) | Orange Category | |
| (A) | with effluent generation, beyond seventy-five meters; | Complied, this is brownfield project, the unit lies in Siltara Industrial Area, there is no major river in the vicinity of the project site. Nearest water body Kharun River – 4.90 km (West) . Hence, the unit not falling in flood plain/HFL/Red line. |
| (B) | without effluent generation, beyond thirty meters; | |
| (iii) | green category, beyond thirty meters; | Not Applicable |
| (b) | from the settlement, educational institute, worship place, archaeological monuments, national park, reserve forest, heritage site, in case of industrial unit of | |
| (i) | red category, beyond five hundred meters; | Complied. Nearest educational institute Jagmohan Lal Higher Secondary School, Sankara – 1.42 km (ESE) direction from the project site. |
| (ii) | orange category, beyond two hundred meters; | Not Applicable |
| (iii) | green category, beyond one hundred meters | Not Applicable |
| (c) | The State Board shall ensure that other laws, rules, and regulations, and notifications are complied with by the industrial plant | <ul style="list-style-type: none"> • We comply with this condition - Complied |
| (d) | The natural or storm drain passing through the location of industrial unit shall not be disturbed | <ul style="list-style-type: none"> • No Natural or storm drain passing through the plant premises. • Thus, this condition is also complied |

20.7.23 The proposal was initially considered during the 1st meeting of the EAC for Industry-I sector held on 3rd, 4th & 7th April, 2025 wherein the Committee deferred the proposal and decided to refer it back to the Ministry (Industry-1 sector) for thorough examination, in consultation with IA Policy Division. The deliberation and recommendations made by EAC are as follows:

Deliberations by the Committee (EAC during 3rd, 4th & 7th April, 2025)

The Committee noted the following:

1. *The instant proposal is for expansion of production facilities of Induction Furnace with CCM From Existing 59,500 TPA To 289,400 TPA MS Billets along with total Rerolled Steel Production Capacity Of 272,000 TPA, Out of Which 242,000 TPA Through Hot Charging and 30,000 TPA through existing BRF based Rolling Mill.*
2. *PP reported that the first Consent to Establish (CTE) and Consent to Operate (CTO) for a 24,000 TPA reheating furnace-based re-rolled steel products unit were granted on 14.08.2006, followed by a separate CTE/CTO on 14.05.2007, for a 14,400 TPA induction furnace to produce MS ingots/billets. The production capacity was later expanded to 28,800 TPA on 10.06.2009. Further expansions included a 24,000 TPA gasifier (2013), a reheating furnace-based rolling mill increased to 30,000 TPA (2015), and a 30,000 TPA re-rolled product unit using an induction furnace and CCM with hot charging direct rolling (2015). Renewals of CTOs were obtained periodically, including a 30,000 TPA billet reheating furnace (2019, valid till 2029) and a 30,000 TPA re-rolled product unit (2019, valid till 2024). For capacity expansion, EC was obtained from SEIAA on 20.09.2021, increasing the induction furnace and CCM-based hot charging direct rolling mill from 30,000 TPA to 59,500 TPA. PP submitted that despite being a B2 category project, it was appraised as B1 due to its location in a Critically Polluted Area for which PP mentioned the provisions of OM dated 31-10-2019. A corresponding CTE/CTO was issued on 20.01.2022, and the CTO was renewed on 08.02.2023, valid until 31.12.2025.*
3. *The EAC observed that the proposal was located in CPA/ SPA, and hence, General Conditions (GC) were attracted, making it a Category-A proposal. Further, OM dated 31-10-2019 had specified that if proposal is falling within 5kms buffer of the CPA/ SPA boundary, then B2 project shall be treated as B1, and B1 shall be treated as A. Further, proposal falling within CPA/ SPA, then irrespective of the category, proposal shall be treated as Category-A. Hence, the instant proposal was required to be appraised as Category-A. In the event of stay on operation of OM dated 31-10-2019, the proposal would have attracted GC only, and hence, required to be considered as Category-A. However, the SEIAA considered it as B1 and granted EC. It appears that SEIAA has overrun its powers while considering the proposal as per the provisions of EIA Notification 2006. Accordingly, the EAC is of the opinion that the Industry-1 sector may examine this aspect in detail, in consultation with IA Policy Division, and update the EAC on the further course of action.*

Recommendations of the Committee (EAC during 3rd, 4th & 7th April, 2025):

In view of the foregoing and after detailed deliberations, the committee deferred the instant proposal and decided to refer it back to the Ministry (Industry-1 sector) for thorough examination, in consultation with IA Policy Division.

20.7.24 Based on the above, following information was sought and submitted:

A) PP 1st ADS reply submission:

| Details of ADS sought by Ministry | | Reply of PP |
|--|--|--|
| S. No. | ADS generated on dated 15.04.2025 & Submission dt. 29.04.2025 | |
| 1 | <i>EAC observed that the proposal was</i> | PP has noted the concern expressed by EAC (Ind. – 1) |

| Details of ADS sought by Ministry | Reply of PP |
|--|---|
| <p><i>located in CPA/ SPA, and hence, General Conditions (GC) were attracted, making it a Category-A proposal. Further, OM dated 31-10-2019 had specified that if proposal is falling within 5 kms buffer of the CPA/ SPA boundary, then B₂ project shall be treated as B1, and B1 shall be treated as A. Further, proposal falling within CPA/ SPA, then irrespective of the category, proposal shall be treated as Category A. Hence, the instant proposal was required to be appraised as Category A. In the event of stay on operation of OM dated 31-10-2019, the proposal would have attracted GC only, and hence, required to be considered as Category-A. However, the SEIAA considered it as B1 and granted EC. It appears that SEIAA has overrun its powers while considering the proposal as per the provisions of EIA Notification 2006. Accordingly, the EAC is of the opinion that the Industry - I sector may examine this aspect in detail, in consultation with IA Policy Division, and update the EAC on the further course of action".</i></p> <p>Hence, we are pleased to submit herewith the following clarification inline with ADS raised on our proposal:</p> | <p>as regards the authority of SEIAA/SEAC to appraise our EC application dated 15/07/2021 and EC sanction Dated 20/09/2021; as the OM dated 31/10/2019 and 30/12/2019 were kept under abeyance vide order dated 28/01/2021. In this respect we request to also consider the letter submitted by us through email on dated 11 April 2025 a copy of which is submitted. in which we have explained that the circular of CPCB vide reference number CPCB.IPC-VIII/CEPI/2019 Dated 25.10.2019; was effective on these dates.</p> <p>In response the concern raised by EAC, we have gone through the documents available in Public domain, and as per verbal discussion with CECB present officials, we learnt that based on a CPCB Circular dated 25/10/2019; CECB Chhattisgarh has issued an office order to enforce <u>Environment Management Mechanism for CPA area</u> to grant CTE/CTO for existing units expansion and for setting up new units; vide letter no 8175 dated 17/12/2019 (which is enclosed also with this letter as Annexure II; and relevant part's screen shot is cut pasted below for sake of quick reference). We understand that CPCB letter issued on 25/10/2019 which is still in force and it has not been withdrawn. As this office order of CECB dated 17/12/2019 is still being enforced on every project in CPA area.</p> <p style="text-align: center;">छत्तीसगढ़ पर्यावरण संरक्षण मंडल <u>पर्यावास भवन, नार्थ लॉक, सेक्टर-19,</u> <u>नवा रायपुर अंटल नगर</u> <u>जिला - रायपुर (छ.ग.) - 492002</u></p> <p>क्रमांक 8175/मुख्या/च.ग.प.सं.म./2019 नवा रायपुर अंटल नगर, दिनांक 17/12/2019</p> <p style="text-align: center;">कार्यालय आदेश</p> <p>माननीय नेशनल ग्रीन ट्रिब्यूनल ग्रीन ट्रिब्यूनल प्रिसेप्ल बैच, नई दिल्ली द्वारा ओप. क्रमांक 1038/2018 में दिनांक 10/07/2019 एवं दिनांक 23/08/2019 को देश के 100 प्रदूषित औद्योगिक क्षेत्रों / कलस्टर वाले आदेश पारित किया गया है।</p> <p>2. माननीय नेशनल ग्रीन ट्रिब्यूनल द्वारा यह भी निर्देश दिये गये थे कि "There is no absolute bar to such units being setup if they are found to be viable. This clarification should take care of any possible apprehension that the order of the tribunal will obstruct any legitimate industrial activity. MoEF&CC can forthwith devise an appropriate mechanism to ensure that new legitimate activity or expansion can take place after due precautions are taken in the areas in question by Red and Orange category of units."</p> <p>उत्तर के अनुसार, भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा मेकेनिजम तैयार किया गया है, जिसे केन्द्रीय प्रदूषण नियंत्रण बोर्ड, दिल्ली द्वारा पत्र क्रमांक सीईपीसी/आईआईए/सीईपीए/सीईआईए/एनजीटी/2019 दिनांक 25/10/2019 के माध्यम से सभी राज प्रदूषण नियंत्रण मंडल / प्रदूषण नियंत्रण कमीटी को आवश्यक कार्यवाही हेतु प्रेषित किया गया है। प्रातः मेकेनिजम के बिन्दु- भी के सरल क्रमांक 01 एवं 02 में सीधी तरफ़ रखी हैं जिसके अंतर्गत भी के सर्वों में दिवा-निर्देश जारी किया गया है। सरल क्रमांक 03 के अनुसार सीधी तरफ़ एसपीए में ईआईए नोटिफिकेशन, 2006 के अंतर्गत नहीं आने वाले हेतु तथा अंतिज श्रेणी के परिणामाना / कार्यवालापनों को स्थापना समर्पित / संचालन समर्पित प्रदान करने हेतु राज प्रदूषण नियंत्रण बोर्ड के बिन्दु क्रमांक 03 में उल्लेखित अंतिरिक्त शर्तों को निर्धारित कर सकता है।</p> <p>As mentioned above it may be noted that the CPCB circular dated 25.10.2019 has not been withdrawn on the day, PP applied for seeking EC as well as on the day EC was granted and also the same is still available at CPCB website and flashing as "New CPCB's Technical Guidelines/SOP" link (https://cpcb.nic.in/openpdffile.php?id=</p> |

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| | <p>TGF0ZXN0RmlsZS9fMTU3ODg5NzI3N19tZWRpYXB0b3RvMjkyODkucGRm) of the same. The CPCB circular is also submitted.</p> <p>In this CPCB Circular at para “B” the mechanism to grant of EC in CPA/SPA is stipulated which might have been possibly be the basis for SEIAA/SEAC CG to appraise our application.</p> <p>B. Consideration of proposals for grant of Environmental clearance for new and expansion activities listed in 'Red' and 'Orange' Categories located in Critically Polluted Areas and Severely Polluted areas:</p> <ol style="list-style-type: none"> Any project or activity specified in Category B1 will be appraised at the Central Level, if located in whole or in part within 5 km from the boundary of Critically Polluted Areas or Severely Polluted Areas. However, Category B2 projects shall be considered at state level stipulating Environmental Clearance conditions as applicable for the Category 'B1' project/activities. <p>To the best of our understanding and as per the heading of Para B which states that these guidelines are applicable for “consideration of proposals for grant of EC for New and expansion activities listed in Red and Orange Category located in CPA/SPA areas” thus this phrase applies to all projects in CPA /SPA areas as per conditions further stipulated in sub para (i) para (ii.) and para (iii.). The sub para (i.) in first sentence asks to include the B1 projects which are located within 5 KM buffer of CPA area also to be considered at central level, But in second sentence it allows all the B2 Category projects to be considered at State level irrespective of it being located in CPA area and allows to be considered at state level by imposing the conditions which are applicable to Category B1 projects.</p> <p>We feel that the very mention of the II line is to exclude all the B2 Projects from being considered at Central level even if these are located in CPA area.</p> <ol style="list-style-type: none"> Proposals located in CPAs and SPAs may be examined by the sectoral Expert Appraisal Committee (EAC) during scoping/appraisal based on the CEPI scores of Air/Water/Land Environment as published by CPCB from time to time. In such proposals, appropriate mitigation measures for the environment possessing higher CEPI score may be made by EAC in the form of recommendations/decision. These recommendations may be explicitly mentioned in the Terms of Reference/Environmental Clearance letter and to be ensured by the member secretary concerned. |

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| | <p>The sub para (ii) of para "B" in the above CPCB circular applies only on those projects which are to be appraised at Central level. This sub para ii guides on specific issues to be addressed at the time of grant of TOR/EC by the sectoral expert which are adding to the severity of Pollution in the CPA area.</p> <p>This sub para (ii) does not apply on B2 Category projects as the B2 Category projects are not required to be appraised by Central EAC as explained under above sub para (i). B2 Category projects are also exempt from scoping and seeking TOR.</p> <p>The sub para (iii) stipulated the conditions based on which CTE/CTO are to be sanctioned. Accordingly based on this circular itself the CECB has notified the office order dated 17.12.2019 based on sub para (iii). CECB has issued CTE/CTO to our project based on the EC granted to us which is also renewed till date.</p> <ul style="list-style-type: none"> • It may also be appreciated that the unit was granted EC based on "No increase in Pollution load" in line with, to comply with NGT concern; additional conditions as applicable to B1 Category projects were imposed. The Induction Furnace based steel making process from Sponge Iron and Pig Iron is considered as Best available (clean) technology (BAT) process as mentioned in the CECB mechanism itself. • In addition Hot Charging based steel rolling is also considered as Clean technology which helps in avoiding GHG emissions. <p>Green Belt area: also 40% green Belts area was asked to be planted. Also no additional fossil fuel was permitted as restricted in the CPCB mechanism. as these are mentioned in CPCB/CECB mechanism. The relevant parts of the CPCB circular are reproduced as below for quick reference:</p> <ul style="list-style-type: none"> • Units shall adopt sectorial Best Available Technology - BAT (Like use of Induction Furnace, Electric Arc Furnace instead of Cupola Furnace, Caustic Recovery System in Cotton Textile units etc.) • Units shall provide green belt of 40% of the total plot area. In case there is restriction of land available within plant premises for 40% green belt development, then the unit shall carry out balance plantation within 05 km radius from its premises to achieve the required plantation of 40%. |

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| | <ul style="list-style-type: none"> • Development of green belt / plantation outside project premises in adjacent areas such as avenue plantation, plantation in vacant areas, social forestry, etc. shall be ensured. • Units shall not use coal, pet-coke, furnace oil, LSHS as a fuel for new and expansion / diversification activities. <p>On going through these issues, it will be found that the SEIAA/SEAC has exercised its best practices as far as their part of project appraisal and decision there to in order to ensure the expansion project capacity would not lead to any additional impact on CPA area. Thus SEIAA/SEAC have granted EC based on “No Increase in Pollution Load” i.e. total pollution load for earlier and enhanced capacity remains unchanged by giving stringent EMP conditions as a part of compliance.</p> <p>It may kindly be appreciated that the MoEFCC circular dated 28/01/2021 issued to put in abeyance MoEFCC circular dated 31.10.2019 and 30.12.2019 did not withdraw the CPCB circular dated 25/10/2019. Moreover the abeyance was imposed only for a short while which was later lifted on 25.02.2022 by Hon Supreme Court.</p> <p>As per above we feel that there is no withdrawal or stay or abeyance imposed on CPCB mechanism dated 25.10.2019.</p> <ul style="list-style-type: none"> ○ Thus, the spirit of NGT order as well as Supreme court order is well followed and implemented by SEIAA while deciding NIPL project appraisal. Imposing project specific EMP conditions as a part of compliance. <p>It may also be appreciated that the B₂ category was created for simplification of grant of EC to such units which do not have substantial impact on environment and the Notification for this was issued on dated 24/12/2013. Thus, after this notification the appraisal of B₂ Category projects in CPA area must be dealt as per CPCB mechanism notified by CPCB on 25/10/2019.</p> <p>PP would also like to submit that we had submitted our EC application under Category B₂ as per prevailing practice for grant of EC to SEIAA CG which has been rigorously been appraised by SEIAASEAC in line with the CPCB mechanism and granted the EC by ensuring that the proposed expansion would not lead to additional impact than considered in past for grant of CTE/CTO.</p> |

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| | <p>It would be evident with the above submission that, our project had been accorded existing EC by SEIAA/SEAC CG (MoEFCC) in accordance with the prevailing regulations available with them.</p> <p>At last, PP would also like to submit that as per EC amendment 7 June 2024 our present capacity for which EC was granted has been exempted from the obligation to seek EC.</p> |

B) Ministry's Communication with SPCB

- In view of the above, Ministry sought clarification from SEIAA, Chhattisgarh regarding the grant of Environmental Clearance dated 20th September, 2021, for enhancement of induction furnace and CCM-based hot charging direct rolling mill capacity from 30,000 TPA to 59,500 TPA, despite the project being located in a Critically Polluted Area (CPA) / Severely Polluted Area (SPA), thereby attracting General Conditions (GC) under the EIA Notification, 2006 and warranting appraisal at the Central level. Accordingly, MoEF&CC vide letter dated 9th September, 2025 sought a detailed justification from SEIAA, Chhattisgarh in the matter.
- In response, SEIAA, Chhattisgarh vide its letter dated 15th January, 2026 submitted that the Environmental Clearance dated 20th September, 2021 for enhancement of induction furnace and CCM-based hot charging rolling mill capacity from 30,000 TPA to 59,500 TPA was granted at the State level and has submitted the minutes of the meeting of appraisal of the proposal. The documents clarifies that the project was treated as a Category B2 proposal appraised with B1-level safeguards, in accordance with the CPCB Circular dated 25.10.2019 governing projects in Critically Polluted Areas. At that relevant time, the MoEF&CC Office Memoranda dated 31.10.2019 and 30.12.2019 were kept in abeyance, and therefore, General Conditions attracting Category-A appraisal were not invoked. It was further clarified that the appraisal was carried out on the basis of *no increase in pollution load*, adoption of Best Available Technology such as induction furnace with hot charging, prohibition on use of solid fossil fuels, development of 40% green belt, and imposition of stringent EMP and CER conditions, and that the EC was granted within the delegated powers of the State Authority as per the prevailing regulatory framework.
- The clarification furnished by SEIAA was examined and placed on record for further consideration of the proposal by the Expert Appraisal Committee (Industry-I).

C) PP's 2nd ADS reply submission:

| Details of ADS sought by Ministry | Reply of PP | |
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| S. No. | ADS generated on dated 29.04.2025 & Submission dt. 16.01.2026 | |
| 1 | MoEF&CC, New Delhi, vide its letter File No. IA-J-11011/298/2023-IA-II (IND-I) dated 09th September, 2025 , has sought clarification from SEIAA, Chhattisgarh as to why the proposal for increasing the capacity of the Induction Furnace and CCM-based hot charging direct | In this regard, the clarification has been sent to your good office directly and copy is also received by us from SEIAA, Chhattisgarh, vide letter Ref. No. 2804/SEIAA, Chhattisgarh/2025 dated 15.01.2026 (Copy is submitted), The copy of this is submitted for kind perusal and further necessary action. |

| Details of ADS sought by Ministry | | Reply of PP |
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| S. No. | ADS generated on dated 29.04.2025 & Submission dt. 16.01.2026 | |
| | <p>rolling mill from 30,000 TPA to 59,500 TPA was considered and granted Environmental Clearance vide letter No. 1274/EC/RAIPUR/1731 dated 20th September, 2021, despite the fact that the project is located in a Critically Polluted Area (CPA) / Severely Polluted Area (SPA) and, therefore, General Conditions (GC) were applicable, making the proposal a Category-A project under the EIA Notification, 2006. (Copy of Letter is submitted)</p> | |

20.7.25 Accordingly, the proposal was placed for reconsideration during the 20th meeting of EAC (Industry -1) held during 22nd – 23rd January, 2026. The deliberations and recommendations of EAC are as follows:

Written submission by the PP:

20.7.26 During the meeting, based on the deliberations made by the EAC, the project proponent vide letter dated 23.01.2026 through email dated 23.01.2026 submitted the following information:

| Sl. | Observations by Hob'le EAC (Ind. – I), MoEFCC, New Delhi | Reply by M/s. Agrawal Channel Mills Pvt. Ltd. | | | | | | | | | | | | | | |
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| 1. | PP shall submit revised CER budget. | The CER budget has been revised and enhanced from Rs. 30.00 Lakhs to Rs. 40.00 Lakhs . The detailed break-up of the revised CER budget is submitted and updated at relevant paragraph above. | | | | | | | | | | | | | | |
| 2. | Regarding implementation of proposed ETP and STP with expansion project; | PP undertakes to implement ETP (Capacity: 50 KLD) and STP (Capacity: 20 KLD) based on MBBR technology by August 2026 . | | | | | | | | | | | | | | |
| 3. | Compliance of Greenbelt 40% | <p>The green belt details in-compliance to 40% Norm under CPA/SPA are as under:</p> <table border="1"> <thead> <tr> <th>Total Area (Area in Ha)</th> <th>Within Premises (In-situ Greenbelt)</th> <th>Outside Premises (Ex-Situ Greenbelt)</th> <th>Total Greenbelt Planted</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>2.39</td> <td>0.46 (i.e. 19%)</td> <td>0.784 (i.e. 33%)</td> <td>1.246 (i.e. 52%)</td> <td rowspan="2">52%</td> </tr> <tr> <td>Green belt</td> <td>1150</td> <td>1960</td> <td>3110 Nos. of plants.</td> </tr> </tbody> </table> <p>Present Status: As on 1st week of January 2026, Total No. of trees 2994 Nos. developed in 1.226 Ha (within plant premises + outside plant premises). Since the plant is located in the Industrial area developed by State Govt and the land allotment to the unit is very old and no additional land is</p> | Total Area (Area in Ha) | Within Premises (In-situ Greenbelt) | Outside Premises (Ex-Situ Greenbelt) | Total Greenbelt Planted | % | 2.39 | 0.46 (i.e. 19%) | 0.784 (i.e. 33%) | 1.246 (i.e. 52%) | 52% | Green belt | 1150 | 1960 | 3110 Nos. of plants. |
| Total Area (Area in Ha) | Within Premises (In-situ Greenbelt) | Outside Premises (Ex-Situ Greenbelt) | Total Greenbelt Planted | % | | | | | | | | | | | | |
| 2.39 | 0.46 (i.e. 19%) | 0.784 (i.e. 33%) | 1.246 (i.e. 52%) | 52% | | | | | | | | | | | | |
| Green belt | 1150 | 1960 | 3110 Nos. of plants. | | | | | | | | | | | | | |

| Sl. | Observations by Hon'ble EAC (Ind. - I), MoEFCC, New Delhi | Reply by M/s. Agrawal Channel Mills Pvt. Ltd. |
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| | | <p>available for further greenbelt development within the premises. The Chhattisgarh State Environment conservation Board in compliance to the NGT order of O.A. No. 1038/2018 dated 10/07/2019 and in accordance with the OM dated 23 August 2019". Issued a environment safeguard mechanism issued vide it s letter no 8175/HO/CECB/2019 NAVA RAIPUR ATAL NAGAR DATED 17/12/209 has notified that existing units can take up the green Belt plantation within 5 Kili Meter radius. (Copy of the mechanism submitted by CECB is based on NGT order and CPCB Mechanism. (copy of CECB Mechanism dated 17/12/2019 is enclosed as Annexure II),</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Units shall provide green belt of 40% of the total plot area. In case there is restriction of land available within plant premises for 40% green belt development, then the unit shall carry out balance plantation within 05 km radius from its premises to achieve the required plantation of 40%.</p> </div> <p>In addition to this the MOEFCC- OM dated 29 October 2025 vide file no F.No. IA3-22/14/2025-IA.III (E- 275538) has issued the similar guidelines based on the NGT order and mechanism . Relevant abstract of this OM are reproduced as below:</p> <p>" D. Green belt norms in case of Industrial Estates and Individual Industrial units in Critically Polluted Areas (CPA) and Severely Polluted Areas: A minimum of 40% green belt shall be developed in red and orange category units located in Critically Polluted Areas (CPA) and Severely Polluted Areas (SPA), in accordance with the Mechanism for Environmental Management of Critically and Severely Polluted Areas and in compliance with the Hon'ble NGT order dated 23.08.2019 in the matter of O.A. No. 1038/2018 and in accordance with the OM dated 31st October 2019".</p> <p>C. Generic directions with regard to developing green belt / green cover: (Ref. OM 29 October 2025)</p> <p>i. In the case of brownfield projects applying for modernization / expansion / change in product mix of the project within industrial estates or individual industrial units, the Expert Appraisal Committees will determine the minimum green belt criteria / provision based on on-site conditions and prescribe requirements on a case-by-case basis.</p> <p>ii. The aforementioned green belt criteria shall be applicable prospectively to the applications received for the grant of EC and also for the applications which are currently under consideration for grant of EC.</p> <p>iii. In addition to the minimum green belt criteria suggested above, the units may take up <i>ex-situ</i> plantation subject to availability of land, in collaboration with State Forest Departments, Urban Local Bodies, or other government agencies in schemes such as Nagar Van, Compensatory Afforestation programs, etc.</p> <p>Thus, Additional greenbelt on 0.784 hect (33% area of the project area) land has been developed outside the plant premises on land owned by the Project Proponent. Relevant land ownership documents submitted.</p> <p>Thus, we request the Hon'ble Committee to consider ex-situ greenbelt (which is located within the CPA area in 3.5 KM in East direction) in compliance with the mechanism prescribed under the CPA/SPA, as</p> |

| Sl. | Observations by Hob'le EAC (Ind. – I), MoEFCC, New Delhi | Reply by M/s. Agrawal Channel Mills Pvt. Ltd. |
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| | | per OM dated 24.10.2019 and OM dtd. 29.10.2025. The entire land is owned by the company itself and has been dedicated for green belt and the details of the same are also submitted from time to state Pollution control board and IRO Raipur (MoEFCC) . |
| 4 | Submission of MoEFCC, New Delhi Letter regarding the appraisal B2 Category projects in CPA area by SEIAA. | MoEFCC's opinion letter dtd. 29 th Nov. 2023 (F. No. J-3012-12-2013-IA-II(I)-PT) issued to SEIAA CG clarifying that B ₂ category project located in CPA/SPA areas shall be appraised at state level (SEIAA/SEAC) has been submitted. |

Deliberations by the Committee

20.7.27 The Committee noted the following:

1. The instant proposal is for expansion of production facilities of Induction Furnace with CCM From Existing 59,500 TPA To 289,400 TPA MS Billets along with total Rerolled Steel Production Capacity Of 272,000 TPA, Out of Which 242,000 TPA Through Hot Charging and 30,000 TPA through existing BRF based Rolling Mill.
2. The first Consent to Establish (CTE) and Consent to Operate (CTO) were granted on August 14, 2006, for a 24,000 TPA reheating furnace-based re-rolled steel products unit, as per CECB letter no. 1792 and 1794/RO/TS/CECB/2006. Subsequently, a separate CTE/CTO was issued on May 14, 2007, for a 14,400 TPA induction furnace (I.F.) to produce MS ingots/billets (CECB letter no. 1338 and 1340/RO/TS/CECB/2007). Later, on June 10, 2009, the production capacity was expanded to 28,800 TPA, as per CECB letter no. 1943 and 1944/RO/TS/CECB/2009. Further, CTE were taken for expansion of 24,000 TPA gasifier on October 17, 2013 (CECB letter no. 1523 and 1524/RO/TS/CECB/2013). On June 6, 2015, another CTE/CTO was issued for the expansion of the reheating furnace-based rolling mill to 30,000 TPA (CECB letter no. 656/RO/TS/CECB/2015). On June 10, 2015, a CTE/CTO was also granted for a 30,000 TPA re-rolled product unit using an induction furnace and a continuous casting machine (CCM) with hot charging-based direct rolling (CECB letter no. 672 and 673/RO/TS/CECB/2015). At that point, rolling mills were not considered under the purview of the Environmental Clearance (EC) requirement of the EIA Notification 2006. Renewals of these consents were obtained time to time. On May 29, 2019, the renewal of CTO for a 30,000 TPA billet reheating furnace (BRF) rolling mill was approved, with validity extended until May 31, 2029 (CECB letter no. 927/RO/TS/CECB/2019). Similarly, the renewal of the CTO for a 30,000 TPA re-rolled product unit using induction furnace and CCM-based hot charging direct rolling mill was granted on June 14, 2019, valid until May 31, 2024 (CECB letter no. 1126/RO/TS/CECB/2019). For capacity expansion, an Environmental Clearance (EC) was obtained from SEIAA on September 20, 2021, for increasing the capacity of the induction furnace and CCM-based hot charging direct rolling mill from 30,000 TPA to 59,500 TPA (CG SEIAA letter no. 1274/EC/RAIPUR/1731). Although the project fell under the B₂ category due to the induction furnace capacity being below 60,000 TPA and its location within an industrial area, it was

appraised as a B1 category project due to its presence in a Critically Polluted Area (CPA) as per CPCB guidelines. Accordingly, on January 20, 2022, a CTE/CTO was granted for this expansion, aligning with the EC (CECB letter no. 3227/RO/TS/CECB/2022). On February 8, 2023, the CTO was renewed for the 59,500 TPA re-rolled product unit through a 10 MT x 4 Nos induction furnace, valid till December 31, 2025 (CECB letter no. 4711/RO/TS/CECB/2023).

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 under Para 7(ii)(a), and the expansion is proposed within the existing premises. 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 Committee noted that pursuant to the observations made during earlier deliberations and the ADS raised regarding the applicability of General Conditions and the authority of SEIAA in grant of Environmental Clearance dated 20th September, 2021, the Ministry sought clarification from SEIAA, Chhattisgarh in the matter. The Committee further noted that SEIAA, Chhattisgarh submitted its clarification explaining the basis of appraisal and grant of the said Environmental Clearance, and that the Project Proponent also furnished its detailed reply in response to the ADS raised. The Committee took note of the clarifications and submissions placed on record for further consideration of the proposal.**

9. The PP submitted that the total project area is 2.39 ha, comprising entirely Government leased industrial land. The land was developed as an industrial area by the Government of Chhattisgarh prior to the EIA Notification, 2006, is duly diverted for industrial use, and is under possession of the project proponent, where the existing plant is operational. The proposed expansion is confined within the same 2.39 ha of existing industrial land and does not involve any additional land acquisition or diversion. The Committee further noted that the existing green belt area of 0.46 ha (19%) within the project premises shall remain unchanged, and an additional green belt area of 0.784 ha at Village Akoli, Raipur District, located about 3.5 km east of the project site, has already been developed.
10. The EAC deliberated on the action plan in compliance to conditions as per CEPI Guidelines due to project area in CPA and opined that PP shall strictly comply with the action plan.
11. Siltara is at a distance of 0.98 Km (E) 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.
12. 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.
13. There are 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.
14. Existing Water requirement was 32 m³/day, which was obtained from surface water. The water requirement for the proposed expansion project is estimated as 425 m³ /day, which will be obtained from the surface water. The EAC opined that the PP shall secure the required approval from the appropriate authority.
15. 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 beyond standards. The EAC deliberated on the detailed justification provided by the project proponent. The EAC opined that a project specific AAQ plan shall be prepared and implemented.
16. It is reported that five species of fauna were documented which belongs to schedule I as per Wildlife Protection Act, 1972 (Amendment 2023). Conservation Plan is submitted for approval at Principal Chief Conservator of Forest (WL), Raipur by Project Proponent vide Ltr. No ACML/2024-25/45 Dated 01.01.2024. 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. The Committee noted the submission of the Project Proponent that against a total project area of 2.39 ha, a cumulative green belt of 1.246 ha (about 52%) has been developed, comprising 0.46 ha (about 19%) within the plant premises and 0.784 ha (about 33%) as plantation outside the premises, with a total of 3,110 saplings planted. As per the PP, 2,994 trees have been established over 1.226 ha within and outside the plant premises as on the first week of January 2026. The Committee further noted the PP's submission that the unit is located in an old industrial area developed by the State Government and that no additional land is available within the premises for further in-situ green belt development. The Committee also noted the PP's contention that the additional plantation has been undertaken on land owned by the PP at a distance of about 3.5 km from the project site, citing provisions of the CECB mechanism dated 17.12.2019 and the MoEF&CC Office Memorandum dated 29th October, 2025, and that relevant land ownership and plantation details have been submitted to the State Pollution Control Board and IRO, Raipur. The EAC deliberated on the greenbelt action plan and is of the opinion that greenbelt shall be developed and maintained in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025 and as per CEPI Guidelines.
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 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.**
22. The EAC also deliberated on other points in written submission of the project proponent and found it satisfactory.
23. 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.
24. 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.

25. 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.
26. As committed, PP shall implement ETP (Capacity: 50 KLD) and STP (Capacity: 20 KLD) based on MBBR technology by August 2026.

Recommendations of the Committee:

- 20.7.28 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 – (i) administrative approval of the competent authority to deal with the proposal (wherein EC was granted to a project located in CPA/ SPA), (ii) uploading of written submission placed before EAC on PARIVESH portal, and (iii) Action Closure Report from IA-CMD, MOEF&CC.** 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. In pursuance to MoEF&CC OMs 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.
- v. Siltara village at distance of 0.98 Km in East direction 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.

- 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. There are 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.
- viii. The existing water requirement was 32 m³/day and the proposed water requirement for the expansion project is estimated as 2965 m³/day, which will be obtained from the Surface water. PP shall secure the required approval from the appropriate authority.
- ix. 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. As committed and in compliance to CEPI Guidelines, PP shall develop and maintain the greenbelt within a period of 1 year. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- x. 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 MeriILiFE portal at (<https://merilife.nic.in>)
- 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 shall be strictly implemented, which is amounting to approx. Rs. 0.4 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.
- xii. 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.
- xiii. PP shall Install CO sensors with alarms at strategic locations in the Plant.
- xiv. 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.

- xv. 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
- xvi. 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.
- xvii. 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 NOx in reference to SO₂ and NOx 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. 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 30 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. 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.
- xviii. Low NOx 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.

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.
- 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 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. 20.8

20.8 Manufacturing of Ferro Alloys, Metals, Tungsten Salts & oxides by M/s. Fonsmet Materials Pvt. Ltd, located at Survey No. 25/3, Village Isambe, Taluka –Khalapur, District Raigad, State- Maharashtra-Consideration of EC.

[Proposal no.: IA/MH/IND1/540731/2026: File No. IA-J-11011/348/2022-IA-II (IND-I)]
[Consultant: Aditya Environmental Services Pvt. Ltd.; Valid upto: 01.05.2028]

- 20.8.1 M/s Fonsmet Materials Pvt. Ltd. has made an online application vide proposal No. IA/MH/IND1/540731/2026 dated 10.01.2026 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. The proposed project activity is listed at S. 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.
- 20.8.2 Name of the EIA consultant: M/s. Aditya Environmental Services Pvt. Ltd. [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/25-28/RA 0397; valid upto 01.05.2028], *inter-alia, accredited for 3 (a) Metallurgical industries - ferrous only.*

Details submitted by Project proponent

20.8.3 The detail of the ToR is furnished as below:

| Date of application | Consideration | Details | Date of accord | ToR Validity |
|---------------------|---|--------------------|----------------|--------------|
| 10.12.2022 | 19 th meeting of EAC held during 16 th & 19 th December 2022 | Terms of Reference | 24.01.2023 | 23.01.2027 |

20.8.4 The project of M/s Fonsmet Materials Pvt. Ltd. located in Isambe Village, Khalupur Tehsil, Raigad, District, Maharashtra State is for setting up of a new Ferro alloy Plant For production of 6191 Tons Per Annum (TPA).

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

| Phase 1 | | | |
|--|--------|-------------------------|---------------------|
| Ferro Alloys | | | |
| Particulars | Sr. No | Product Name | Quantity (TPA) Max. |
| Any product combination from Sr. No. 1 to 9. Based on the orders Not exceeding 1200 TPA collective & also not exceeding their individual capacities. | 1 | Low carbon Ferro Chrome | 1200 |
| | 2 | Ferro Manganese | 1200 |
| | 3 | Ferro Tungsten | 600 |
| | 4 | Ferro Molybdenum | 600 |
| | 5 | Ferro Titanium | 600 |
| | 6 | Ferro Vanadium | 600 |
| | 7 | Ferro Niobium | 600 |
| | 8 | Ferro Nickel | 600 |
| | 9 | Ferro Cobalt | 600 |
| Metal Ingots & Powder from Scrap | | | |
| Melting and refining Aluminum & Copper scrap | 1 | Aluminum Ingots/Powder | 1200 |
| | 2 | Copper Ingots/Powder | 1200 |
| Metals Reduction by Aluminum | | | |
| Any combinations of products from Sr. no. 1 to 8. Based on orders Not exceeding 240 TPA & also not exceeding their individual capacities | 1 | Tantalum | 240 |
| | 2 | Niobium | 240 |
| | 3 | Nickel | 240 |
| | 4 | Cobalt | 240 |
| | 5 | Tungsten | 240 |
| | 6 | Chromium | 240 |
| | 7 | Vanadium | 240 |
| | 8 | Molybdenum | 240 |
| Metals By Carbon Reduction | | | |
| Producing both Tin AND Copper | 1 | Tin | 240 |
| | 2 | Copper | 240 |
| Phase - 2 | | | |
| Metals Reduction By Magnesium | | | |
| Particulars | Sr.No. | Product Name | Quantity (TPA) Max. |
| Any combinations of | 1 | Tungsten | 240 |

products from Sr no. 1 to 3.
Based on orders
Not exceeding 240 TPA.

| | | |
|---|----------|-----|
| 2 | Tantalum | 240 |
| 3 | Niobium | 240 |

Phase 3

Tungsten Salts & Oxides

| | | | |
|---|---|--|-------|
| Any combination of products from Sr. no. 1 to 4 Not exceeding 180 TPA (WO ₃ basis) & also not exceeding their individual capacity <i>Note – Basis for tungsten salts & oxides is the WO₃ content present in them.</i> | 1 | Sodium Tungstate [Na ₂ WO ₄ .2H ₂ O] | 251 |
| | 2 | Ammonium Para tungstate [(NH ₄) ₁₀ (H ₂ W ₁₂ O ₄₂).4H ₂ O] | 198.6 |
| | 3 | Tungsten Trioxide [WO ₃] | 180 |
| | 4 | Tungstic acid [H ₂ WO ₄] | 194 |

Sulfates of Copper, Nickel and Cobalt

| | | | |
|---|---|---|-----|
| Producing Copper sulfate, nickel sulfate and cobalt sulfate Each product having individual capacity of 300 TPA Max. | 1 | Copper Sulfate [CuSO ₄ .nH ₂ O, | 300 |
| | | where n = 0 to 5] Basis- CuSO ₄ .5H ₂ O | |
| | 2 | Nickel Sulfate [NiSO ₄ .nH ₂ O, | 300 |
| | | where n= 0 to 7] Basis- NiSO ₄ .7H ₂ O | |
| | 3 | Cobalt Sulfate [CoSO ₄ .nH ₂ O, | 300 |
| | | where n= 0 to 7] Basis- CoSO ₄ .7H ₂ O | |

20.8.6 The proposal was considered during the 20th meeting of the EAC for Industry-I sector held during 22nd -23rd January, 2026. The deliberation and recommendations of EAC are as follows:

Deliberations by the Committee

20.8.7 The Committee noted the following:

- The Committee deliberated upon the proposal for grant of Environmental Clearance (EC) for manufacturing of ferro alloys, metals, tungsten salts and oxides by M/s Fonsmet Materials Pvt. Ltd. and noted that the project has been submitted under Schedule Item 3(a) – Metallurgical industries (ferrous and non-ferrous) of the EIA Notification, 2006, under Category “A”, for appraisal at the Central level. The Committee examined the scope of the proposed project and observed that, in addition to certain ferro-alloy products, the proposal involves manufacture of non-ferrous metals such as tungsten, tantalum, niobium, nickel, cobalt, aluminium and copper; production of ferro-alloys of non-ferrous elements; and chemical processing of tungsten compounds, including tungsten salts and oxides, as well as metal sulfates of copper, nickel and cobalt.
- The Committee noted that the EIA/EMP report for the proposal has been prepared and presented by M/s Aditya Environmental Services Pvt. Ltd., which is accredited by NABET for Sector 3(a) – Metallurgical industries (ferrous only). The Committee observed that the

accreditation held by the consultant does not cover non-ferrous metallurgical processes and chemical processing of non-ferrous metal compounds, which constitute a substantial and integral part of the proposed project activities.

- iii. The Committee expressed concern that preparation of the EIA/EMP for a project involving extensive non-ferrous metallurgical operations and tungsten chemical processing by a consultant accredited only for ferrous metallurgical industries raises issues regarding the technical adequacy, sectoral competence, and regulatory conformity of the EIA/EMP report. The Committee was of the view that, as per the applicable accreditation framework and appraisal procedures, an EIA/EMP report must be prepared and presented by a consultant duly accredited for the relevant sector(s) corresponding to the complete scope of the project. In the absence of appropriate accreditation, the Committee is unable to rely upon or appraise the EIA/EMP report submitted for the instant proposal.
- iv. In view of the above, the Committee opined that appraisal of the proposal in its present form is procedurally untenable, and the proposal cannot be considered further at this stage. Accordingly, the Committee decided not to appraise the proposal and recommended that the proposal be returned, with advice to the Project Proponent to engage a suitably accredited consultant, complete all procedural formalities as per the EIA Notification, 2006, and submit a fresh proposal for consideration.

Recommendations of the Committee

20.8.8 In view of the foregoing and after detailed deliberations, **the Committee decided to return the proposal in present form**. The Project Proponent may submit a fresh proposal after engaging an appropriately accredited consultant covering the relevant sector(s) and fulfilling all procedural requirements as per the EIA Notification, 2006.

Consideration of TOR Proposal

Agenda No. 20.9

20.9 Proposed Expansion of Ferro Alloy Plant by Installing 1 X 6.5 MVA Submerged Arc Furnace along with existing Electric Submerged Arc Furnace of 1 X 3.5 MVA by M/s. Maa Vaishnavi Chemical Industries Pvt. Ltd., located at Village- Banshagara, P.O.: Sarpi, P.S. Laudoha, Faridpur, Durgapur : 713363, Dist.: Paschim Burdwan, West Bengal-Consideration of TOR.

[Proposal no.: IA/WB/IND1/560480/2026: File No. IA-J-11011/21/2026-IA-II (Ind-I)]

[Consultant: Acro Design and Engineering; Valid upto: 30.01.2027]

20.9.1 M/s. Maa Vaishnavi Chemical Industries Pvt. Ltd. has made an online application vide proposal No. IA/WB/IND1/560480/2026 dated 02.01.2026 along with the application in the prescribed format {Form-1 (Part - A & B)}, Copy of Pre-feasibility Report and Proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous or non-ferrous) under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.

20.9.2 Name of the EIA consultant: M/s. Acro Design and Engineering [List of ACOs with their Certificate / Extension Letter no. NABET/EIA/24-27/IA 0136; valid upto 30.01.2027], *inter-alia, accredited for 3 (a) Metallurgical industries – secondary ferrous only for Category B projects.*

Details submitted by Project proponent

20.9.3 The project of M/s. Maa Vaishnavi Chemical Industries Pvt. Ltd., located at Village- Banshgora, P.O.: Sarpi, P.S. Laudoh, Faridpur, Durgapur : 713363, Dist.: Paschim Burdwan, West Bengal is for expansion of Ferro Alloy Plant by Installing 1 X 6.5 MVA Submerged Arc Furnace along with existing Electric Submerged Arc Furnace of 1 X 3.5 MVA.

20.9.4 The proposal was considered during the 20th meeting of the EAC for Industry-I sector held during 22nd -23rd January, 2026. The deliberation and recommendations of EAC are as follows:

Deliberations by the Committee

20.9.5 The Committee noted the following:

- i. The Committee deliberated upon the proposal submitted by M/s Maa Vaishnavi Chemical Industries Pvt. Ltd. for grant of Terms of Reference (ToR) for expansion of an existing ferro-alloy plant by installation of 1 × 6.5 MVA Submerged Arc Furnace, in addition to the existing 1 × 3.5 MVA Electric Submerged Arc Furnace, and noted that the project falls under Schedule Item 3(a) – Metallurgical industries (ferrous or non-ferrous) of the EIA Notification, 2006, under Category “A”, for appraisal at the Central level.
- ii. The Committee noted that the proposal has been presented through M/s Acro Design and Engineering, which is accredited by NABET for Sector 3(a) – Metallurgical industries (secondary ferrous only) and for Category-B projects only. The Committee observed that the proposed expansion involves installation of a submerged arc furnace for ferro-alloy production, which constitutes primary metallurgical activity, and the proposal is categorised as Category-A, thereby falling outside the scope of the consultant’s accreditation.
- iii. The Committee further noted that, although engagement of an EIA consultant is not mandatory at the ToR stage, once a Project Proponent chooses to engage a consultant and the proposal is presented through such consultant, the consultant must be duly accredited for the relevant sector and category of the project. In the present case, the consultant engaged is not competent to present or represent a Category-A primary metallurgical project before the Committee.
- iv. The Committee was of the view that consideration of the proposal in its present form, as presented by a consultant lacking appropriate sectoral and category-specific accreditation, is procedurally not in order. Accordingly, the Committee decided that the proposal cannot be appraised further at this stage. In view of the above, the Committee decided to return the proposal, with advice to the Project Proponent to either submit the proposal afresh without engaging a consultant, or to engage a suitably accredited consultant competent for Category-A metallurgical industries, and re-submit the proposal in accordance with the provisions of the EIA Notification, 2006.

Recommendations of the Committee

20.9.6 In view of the foregoing and after detailed deliberations, **the Committee decided to return the proposal in its present form.** The Project Proponent may submit a fresh proposal, either

independently or through an appropriately accredited consultant, after addressing the above-mentioned issues.

Consideration of Amendment in EC Proposal

Agenda No. 20.10

20.10 **Amendment in Existing 1.2 MTPA Pellet Plant with Installation of PGP (Producer Gas Plant) for Predominant Substitution of Existing Fuel - Furnace Oil by Producer Gas (Existing Environmental Clearance F. No. J-11011/717/2009-IA.II (I) dated 30.12.2010 and transferred on 19.07.2019) by M/s. Amalgam Steel Private Limited, located at Khata Nos. – 1, 2, 3, 4, 8, 10, 12, 16, 17, 19, 21, 23, 24, 26, 28, Khasra Nos. 31, 32, 33, 34, 35, 36, 37, 38, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 53, 55, 56, 57, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 82, 92, 93, 110, 111, 112, 117 at Village-Kandra, Kandra-Chowka Road, District-Saraikela-Kharsawan, Jharkhand-Consideration of Amendment in EC.**

[Proposal no.: IA/JH/IND1/552299/2026: File No. IA-J-11011/717/2009-IA-II (I)]

[Consultant: Pollution and Ecology Control Services; Valid upto: 03.01.2027]

20.10.1 The Member Secretary informed the Committee that the Consultant, vide letter dated 19.01.2026, through email dated 19.01.2026, conveyed that they are unable to submit and present the proposal as the validity of their NABET accreditation expired on 15th January, 2026, and the re-accreditation assessment was conducted during 12th –14th January, 2026, with the re-accreditation certificate from NABET currently awaited.

20.10.2 Taking into consideration the communication from the PP/ Consultant, EAC recommended to defer the proposal and advise Ministry to consider the proposal after receiving the communication from PP/ Consultant once Consultant have valid accreditation and they are ready to attend the meeting.

The meeting ended with thanks to the Chair.

e-Payments ***

Standard ToR in line with Appendix III of the EIA, 2006.
applicable to Proposals Under Industry-1 Sector

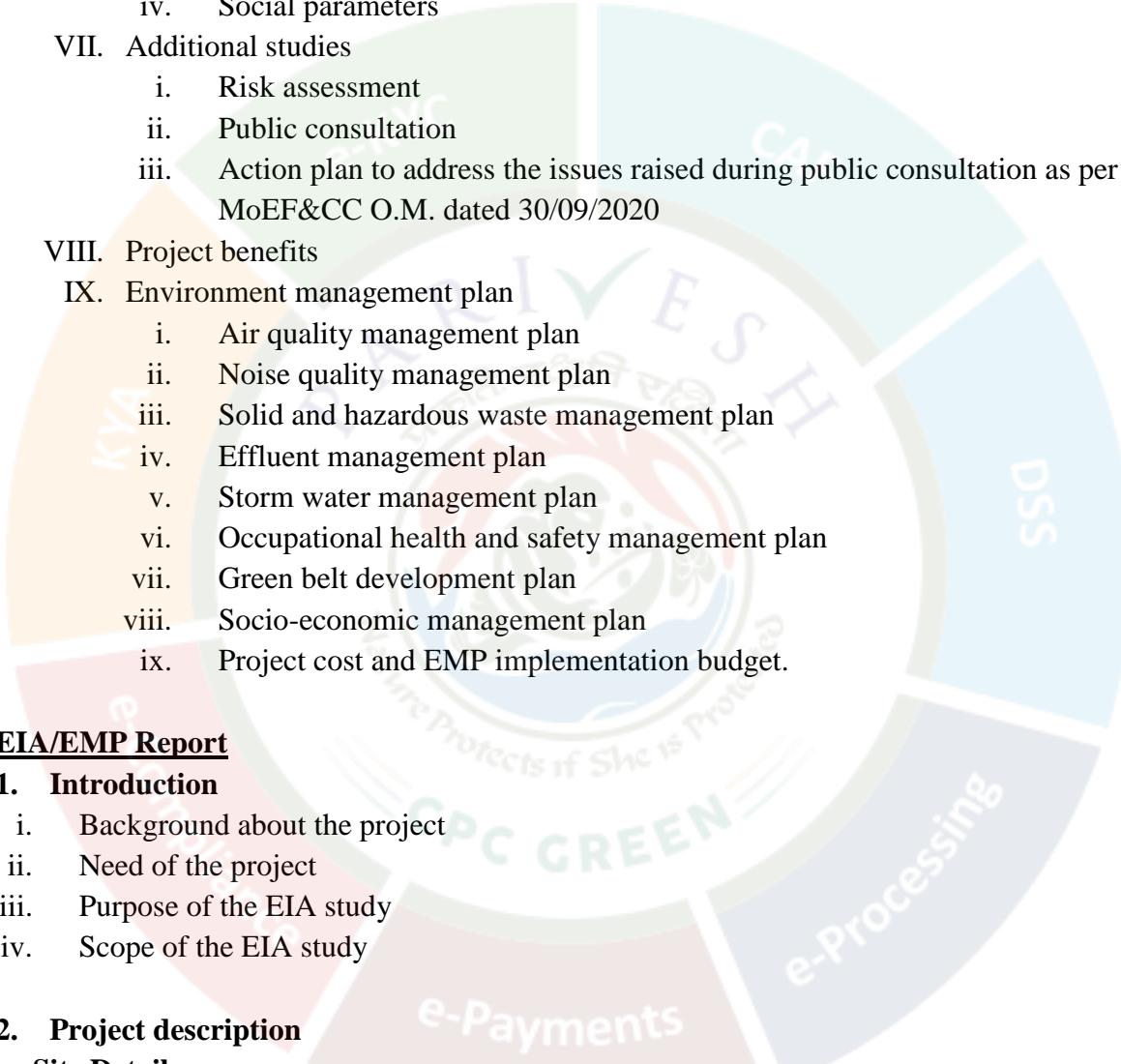
Preliminary requirements:

- 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

- Study period
- 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 direction Dry bulb temperature Wet bulb temperature Relative humidity Rainfall Solar radiation Cloud cover Environmental Lapse Rate | Minimum 1 site in the project impact area | 1 hourly continuous | <ul style="list-style-type: none"> IS 5182 Part 1-20 Site specific primary data is essential Secondary data from IMD, New Delhi CPCB guidelines to be considered. |
| Pollutants | | | |
| <ul style="list-style-type: none"> PM_{2.5} PM₁₀ SO₂ NO_x CO HC Other 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 guidelines Collection 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 | | | |
| • Hourly equivalent noise levels | At least 8-12 locations | As per CPCB norms | - |
| C. Water | | | |
| Parameters for water quality <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 | Samples for water quality should be collected and analyzed as per: <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. | | |
| For River Bodies <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 | | |
| • 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 | | | |
| F. Socio-economic | | | | |
| • Demographic structure | <ul style="list-style-type: none"> Socio-economic survey is based on proportionate, stratified and random sampling method. Primary data collection through questionnaire | | | |
| • Infrastructure resource base | | | | |
| • Economic resource base | | | | |

| 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 hard 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)

- Construction phase
- 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)

- Construction phase
- 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

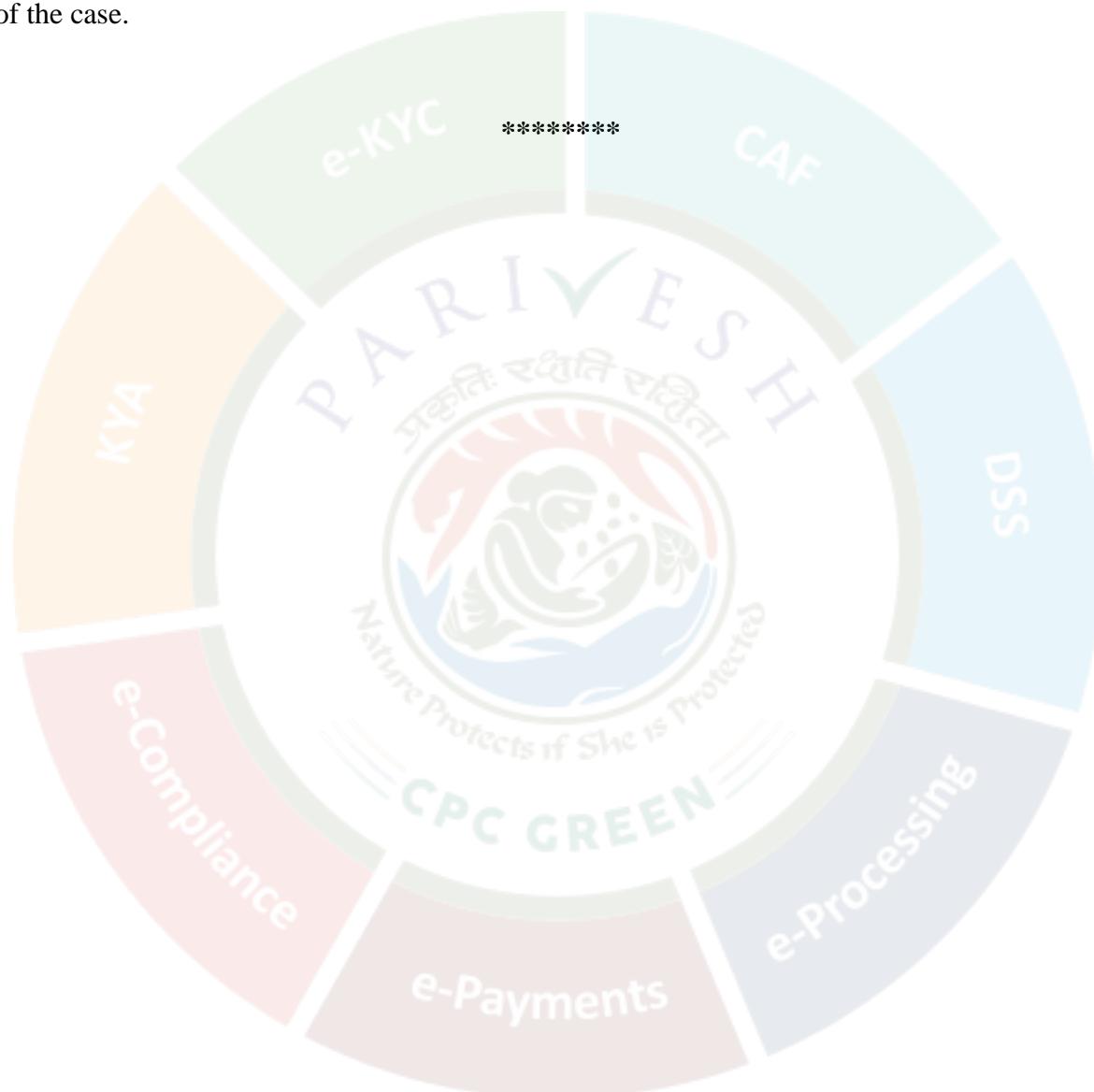
10. Environment Management Plan (Construction and Operation phase)

- 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 gulland 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 gulland 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 potsher 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 gulland 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 P2.5) 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 is acquisition, nearby (in 2/3 km.) water body, population, with in 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



ANNEXURE-3**List of the Expert Appraisal Committee (Industry-1) members participated during VC Mode meeting**

| S. No. | Name | Position | 22.01.2026 | 23.01.2026 |
|--|--|------------------|-------------------|-------------------|
| 1. | Shri Rajive Kumar | Chairman | <i>Present</i> | <i>Present</i> |
| 2. | Dr. Dipankar Shome | Vice Chairman | <i>Present</i> | <i>Present</i> |
| 3. | Dr. S. Ranganathan | Member | <i>Present</i> | <i>Present</i> |
| 4. | Dr. Ranjit Prasad | Member | <i>Present</i> | <i>Present</i> |
| 5. | Dr. W G Prasanna Kumar | Member | <i>Present</i> | <i>Present</i> |
| 6. | Prof. Dinesh Kumar Sharma | Member | <i>Present</i> | <i>Present</i> |
| 7. | Dr. Suranjan Sinha | Member | <i>Present</i> | <i>Present</i> |
| 8. | Dr. E V R Raju | Member | <i>Present</i> | <i>Present</i> |
| 9. | Dr. S K Chaturvedi, (Representatives of NCCBM) | Member | <i>Present</i> | <i>Present</i> |
| 10. | Dr. Prasoon Gargava, Scientist 'F' (Representative of CPCB) | Member | <i>Absent</i> | <i>Absent</i> |
| 11. | Dr. B. Ravichandran, Scientist E (Representative of National Institute of Occupational Health -NIOH) | Member | <i>Absent</i> | <i>Present</i> |
| 12. | Dr. Sandip Kumar Mukhopadhyay, Scientist-F, (Representative of M/o Earth Sciences) | Member | <i>Absent</i> | <i>Absent</i> |
| 13. | Shri Dinesh Runiwal, Member Secretary (EAC Ind-1), Scientist F / Director, MoEFCC | Member Secretary | <i>Present</i> | <i>Present</i> |
| Ministry Officials (Industry-1 Sector) | | | | |
| 14. | Dr P Suresh Babu | Scientist D | <i>Present</i> | <i>Present</i> |
| 15. | Dr Sandeepan BS | Scientist C | <i>Present</i> | <i>Present</i> |

Approval of EAC Chairman

Rajive Kumar < chairman.eac.ind.1@gmail.com >
Mon, 02 Feb 2026 3:28:58 PM +0530

To "Dinesh Runiwal" <d.runiwal@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, 2 Feb 2026 at 12:22 PM, Dinesh Runiwal <d.runiwal@gov.in> wrote:
Respected Chairman Sir,

The 20th EAC Meeting of the Industry-1 Sector was held on 22-23 January 2026 in virtual mode. The draft Minutes of Meeting (MoM) of the meeting were shared on 30-01-2026 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 20th 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 PARIYESH portal.

with regards,

Dinesh Runiwal
Scientist-F/ Director
Member Secretary EAC
(Industry-1 Sector)
IA Division, MoEFCC
