



सत्यमेव जयते

File No: IA-J-11011/150/2022-II (IND-I)
Government of India
Ministry of Environment, Forest and Climate
Change
IA Division



Date 26/02/2024



To,

M/s. SPS STEELS ROLLING MILLS LIMITED
Diamond Heritage, 16, Strand Road, Room No. H 523A, 5th Floor, Kolkata , KOLKATA, WEST
BENGAL, Opposite of Nonapukur Tram Depot, 700001
Email: spsmoef@shakambhargroup.in

Subject: Expansion of Sponge Iron Plant(1,20,000 to 15,84,000 TPA),Captive Power Plant(10 MW to 145 MW-WHRB, AFBC & CFBC Boiler), Ferro Alloy (1x9 MVA to 8x9 MVA), along with New Installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2x2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding by M/s SPS Steels Rolling Mills Limited at Village Poradiha, Chandurdi & Shunurhi, PO – Pachhandapur, PS–Santuri, Tehsil Raghunathpur, District Purulia, West Bengal–Grant of Environmental Clearance under the provisions EIA Notification, 2006 -regarding.

Sir/Madam,

This refers to your proposal no **IA/WB/IND1/449942/2023 dated 22.11.2023** along with copy of EIA report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. Further PP's letter dated **11.01.2024** has requested for amendments/corrections in the EC-specific conditions.

2. The particulars of the proposal are as below :

| | |
|-------------------------------|---|
| (i) EC Identification No. | EC23A1001WB5771217N |
| (ii) File No. | IA-J-11011/150/2022-II (IND-I) |
| (iii) Clearance Type | Fresh EC |
| (iv) Category | A |
| (v) Project/Activity Included | 3(a) Metallurgical Industries (ferrous and non ferrous),1(d) Thermal Power Plants,1(d) Thermal Power Plants |
| Schedule No. | |
| (vi) Sector | Industrial Projects - 1 |
| (vii) Name of Project | Expansion of Sponge Iron Plant(1,20,000 to 15,84,000 TPA),Captive Power Plant(10 MW to 145 MW-WHRB, AFBC & CFBC Boiler),Ferro Alloy(1x9 MVA to 8x9 MVA), along with New |

Installation of Steel Melting Shop(10,05,000 TPA),Rolling Mill(9,97,500 TPA),Pellet Plant(2x2.4 MTPA),Sinter Plant(1,00,000 TPA),Jigging plant(1,65,000 TPA),Briquetting plant(3,00,000 TPA),Oxygen Plant(170 TPD)&Railway Siding at Village Poradiha,Chandurdi&Shunurhi,PO–Pachhandapur,PS–Santuri,Tehsil Raghunathpur,District Purulia,WB

| | |
|---|----------------------------------|
| (viii) Name of Company/Organization | SPS STEELS ROLLING MILLS LIMITED |
| (ix) Location of Project (District, State) | PURULIA, WEST BENGAL |
| (x) Issuing Authority | MoEF&CC |
| (xi) Applicability of General Conditions as per EIA Notification, 2006 | No |

3. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered schedule S. No. 3(a) Metallurgical Industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

4. The proposal is considered in the 50th meeting of the EAC for Industry-I sector held during 13th -15th December, 2023, wherein the Committee, after detailed deliberations, recommended the proposal. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>. The proposal was further considered in 52nd EAC meeting held on 23-25 January, 2024 w.r.t. amendments/corrections in the specific conditions of EC wherein the EAC has recommended the proposal.

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

6. The EAC, in its meeting held during on 13th to15th December, 2023, inter-alia, deliberated the following:

1. The instant proposal for an expansion of Sponge Iron Plant (1,20,000 to 15,84,000 TPA), Captive Power Plant (10 MW to 145 MW – WHRB, AFBC & CFBC boiler), Ferro Alloy (1 x 9 MVA to 8 x 9 MVA), along with new installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2 x 2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding.
2. The existing project was accorded Consent to Establish/NOC before the EIA Notification, 2006. The name change for Consent to Establish was obtained vide NOC No. 158944, Memo No. 19-WPBA/NOC/Red(428)/(Prl)/2021 dated 11.01.2022. Consent to Operate for Air and Water has been obtained for 10,000 TPM Sponge Iron Plant and Captive power generation of 10 MW vide Consent Letter No. CO131828, Memo No. 217-WPBA/Red (Prl)/Cont (114)/03 dated 25.03.2022 & Consent to Operate for Air and Water obtained from West Bengal Pollution Control Board for Ferro Manganese/Silico Manganese/Ferro Silicon off 1300 ton/month capacity vide Consent Letter No. CO134634, Memo No. 59 C-WPCB/Red/Prl/Cont/114/03 dated 30.01.2023. The validity of both CTOs is up to 28.02.2027. Based on the information provided by the PP, the EAC confirmed that EC was not required for the existing project.
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. Total land envisaged for the proposed expansion project is 129.42 ha [Existing land area: 15.24 ha + Additional land area: 114.51 ha]. Out of total plant area, 26.67 Ha land is under the possession of the company. For 32.03 Ha land, LTS (Long Term Settlement) was applied to the Govt. of West Bengal and subsequently, 31.50 Ha has been recommended by the Office of the District Magistrate, Purulia, Govt. of West Bengal vide Memo No. 01/Industry dated 03.03.2023 and for 71.58 Ha land, consents (Agreement for Purchase) have been taken from the land owners. The EAC is of the view that complete land acquisition and conversion for industrial purpose shall be completed prior to commencement of proposed project.
8. There is dense habitation along with other sensitive areas within the study area of the project site. The EAC is of the opinion that PP shall prepare and strictly implement the environmental safeguard measures to minimise the impact on the habitation of the locals.
9. There is a seasonal nala inside the plant premises and a stream is flowing adjacent to the plant. Damodar River is at a distance of 1 km with other water bodies near the project site within the study area. Company has obtained letter from Executive Engineer, Purulia Construction Division (Irrigation), Irrigation & Waterways Directorate, Govt of West Bengal vide memo no. 1140/PCD/F(C/D)1 dated 12.12. 2023 stating that “there was no report of flood occurred during last 25 years in the adjacent area of SPS Steel Rolling Mills Ltd. located at PO Pachhandapur, Block Santurim Dist. Purulia (West Bengal). The EAC is of the opinion that the water body shall not be disturbed. Mitigation measures w.r.t. safeguarding the water body shall be prepared and submitted.
10. Total fresh water requirement after expansion will be 15560 KLD, which will be sourced from Damodar River. The company has already applied for supply of additional water i.e. 4.08 MGD (18548 KLD) to Damodar Valley Corporation (DVC) vide letter no. SPS-2/2023-24/ DVC/ Water/01 dated 25.09.2023. The same is under process with the department. The EAC deliberated on the water requirement is of the opinion that PP shall obtain necessary permission from the Competent Authority in this regard.
11. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and is of the opinion that stringent mitigation measures to minimise the pollution shall be prepared and strictly implemented.
12. The PP has submitted that the existing green belt has been developed in 5.02 ha area which is about 33 % of the existing plant area of 15.24 ha with total sapling of 11,500 no. of trees and remaining 1,050 no. of trees will be planted in the existing greenbelt area during upcoming monsoon season. Proposed Greenbelt will be developed in 37.98 ha area. Thus, total of 43.0 ha area (more than 33% of total project area, i.e., 129.75 Ha) will be developed as a greenbelt. Total no. of 94, 950 no. of trees/saplings will be planted and nurtured in 37.98 hectares by the end of 2028. PP has submitted an undertaking for developing greenbelt around the schools existing within 1 km radius of the project site. An amount of 80 lacs has been earmarked for plantation by the company in nearby villages. The EAC deliberated on the greenbelt layout plan along with action plan and the budget earmarked and is of the opinion that greenbelt shall be completed within a period of 2 years.
13. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
14. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
15. The EAC deliberated on the certified compliance report of IRO along with ATR submitted to IRO and found it satisfactory.
16. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.
17. 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.
18. 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.

19. 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.

7. The EAC, in its 50th meeting of Expert Appraisal Committee (Industry-1 Sector) held during 13th to 15th December, 2023, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements and subject to uploading the written submission on portal.

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

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

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

11. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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

13. This issues with approval of the competent authority.

[Dr R B Lal]
Scientist F/ Director

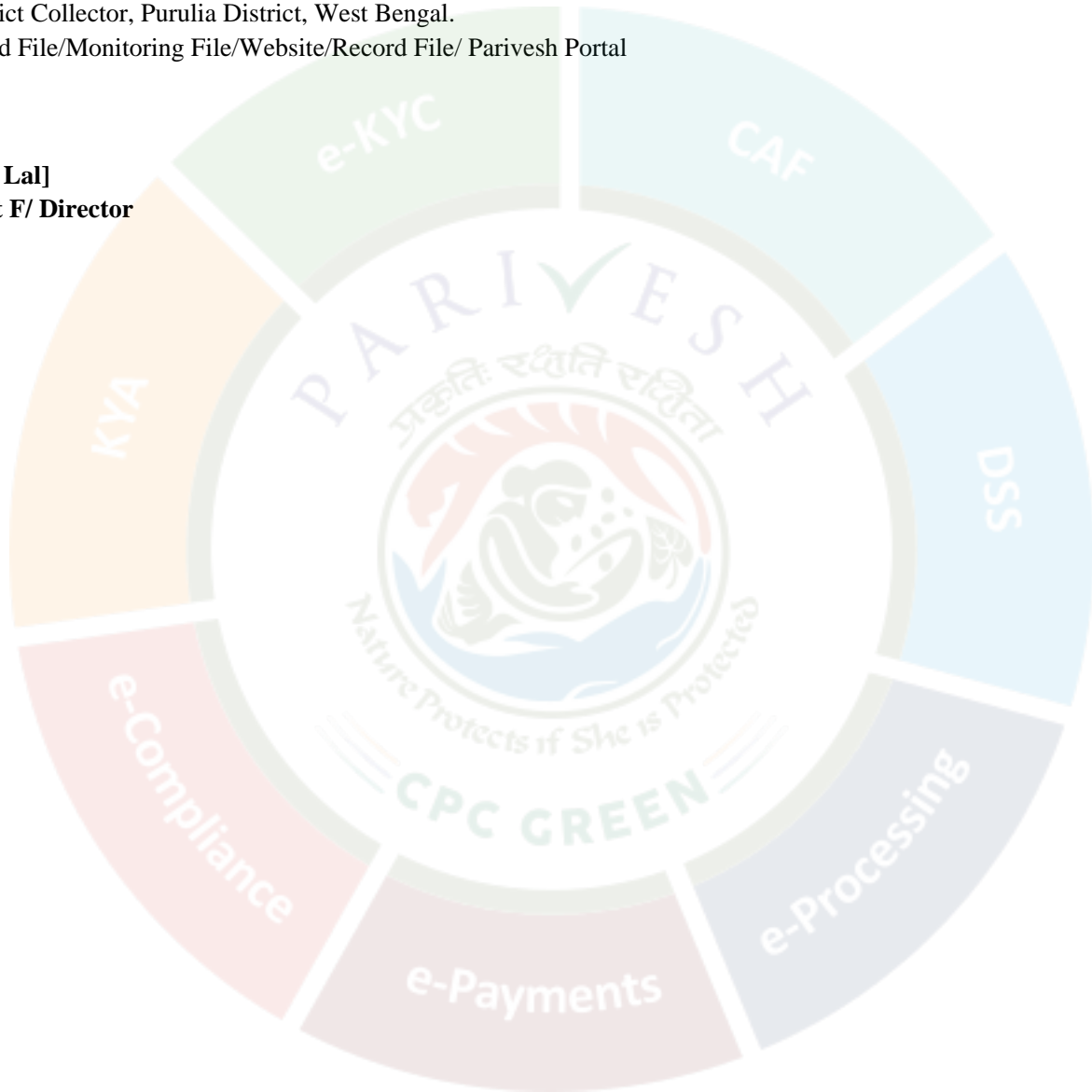
Copy To

1. The Secretary, Department of Environment, Government of West Bengal, Secretariat Kolkata.
2. The Secretary, Department of Forests, Government of West Bengal, Kolkata.
3. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
4. The Principal Chief Conservator of Forests, Government of West Bengal, Block LA, 10A Sector-III, Salt Lake City,

Kolkata-700098.

5. The Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, IB-198, Sector-II, Salt Lake City, Kolkata – 700106
6. The Member Secretary, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
7. The Member Secretary, West Bengal State Pollution Control Board, Paribesh Bhawan, 10A- Block LA, Sector –III, Salt Lake City, Kolkata – 700 098.
8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi 110001.
9. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
10. District Collector, Purulia District, West Bengal.
11. Guard File/Monitoring File/Website/Record File/ Parivesh Portal

[Dr R B Lal]
Scientist F/ Director



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

| S. No. | Particulars | Details | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|---|------------|---------------|-----------|----------|----------------|---------------|------------|---------------|---------------|---|----------------|---------------|---|---------------|---------------|---|---------------|---------------|---|---------------|---------------|---|--------------|---------------|---|---------------|---------------|---|---------------|---------------|---|---------------|---------------|---|---------------|--------------|---|--------------|--------------|---|---------------|--------------|---|---------------|---------------|
| a. | Terms of Reference for undertaking EIA study | 30.04.2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | Period of baseline data collection | March to May, 2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | Date of Public Consultation | 15th December, 2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | Action plan to address the PH issues | An amount of Rs. 5002 Lakhs has been earmarked for implementation of the commitments made during Public Hearing and need based activities. Detail of activities proposed attached as Annexure IV . | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| e. | Location of the project | Village Poradiha, Chandurdi & Shunurhi, PO – Pachhandapur, PS– Santuri, Tehsil Raghunathpur, District Purulia, West Bangal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| f. | Latitude and Longitude of the project site | <table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>23°37'35.34" N</td> <td>86°52'55.44"E</td> </tr> <tr> <td>B</td> <td>23°37'35.61"N</td> <td>86°53'14.06"E</td> </tr> <tr> <td>C</td> <td>23°37'30.45" N</td> <td>86°53'32.10"E</td> </tr> <tr> <td>D</td> <td>23°37'31.60"N</td> <td>86°53'40.01"E</td> </tr> <tr> <td>E</td> <td>23°37'27.05"N</td> <td>86°53'45.37"E</td> </tr> <tr> <td>F</td> <td>23°37'17.53"N</td> <td>86°53'46.63"E</td> </tr> <tr> <td>G</td> <td>23°37'1.94"N</td> <td>86°53'45.75"E</td> </tr> <tr> <td>H</td> <td>23°36'58.27"N</td> <td>86°53'31.20"E</td> </tr> <tr> <td>I</td> <td>23°36'54.70"N</td> <td>86°53'19.57"E</td> </tr> <tr> <td>J</td> <td>23°36'54.98"N</td> <td>86°53'11.29"E</td> </tr> <tr> <td>K</td> <td>23°36'58.41"N</td> <td>86°53'8.46"E</td> </tr> <tr> <td>L</td> <td>23°37'2.38"N</td> <td>86°53'8.97"E</td> </tr> <tr> <td>M</td> <td>23°37'12.97"N</td> <td>86°53'7.13"E</td> </tr> <tr> <td>N</td> <td>23°37'25.16"N</td> <td>86°52'48.57"E</td> </tr> </tbody> </table> | Point | Latitude | Longitude | A | 23°37'35.34" N | 86°52'55.44"E | B | 23°37'35.61"N | 86°53'14.06"E | C | 23°37'30.45" N | 86°53'32.10"E | D | 23°37'31.60"N | 86°53'40.01"E | E | 23°37'27.05"N | 86°53'45.37"E | F | 23°37'17.53"N | 86°53'46.63"E | G | 23°37'1.94"N | 86°53'45.75"E | H | 23°36'58.27"N | 86°53'31.20"E | I | 23°36'54.70"N | 86°53'19.57"E | J | 23°36'54.98"N | 86°53'11.29"E | K | 23°36'58.41"N | 86°53'8.46"E | L | 23°37'2.38"N | 86°53'8.97"E | M | 23°37'12.97"N | 86°53'7.13"E | N | 23°37'25.16"N | 86°52'48.57"E |
| Point | Latitude | Longitude | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 23°37'35.34" N | 86°52'55.44"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 23°37'35.61"N | 86°53'14.06"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 23°37'30.45" N | 86°53'32.10"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 23°37'31.60"N | 86°53'40.01"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | 23°37'27.05"N | 86°53'45.37"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | 23°37'17.53"N | 86°53'46.63"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | 23°37'1.94"N | 86°53'45.75"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | 23°36'58.27"N | 86°53'31.20"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I | 23°36'54.70"N | 86°53'19.57"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J | 23°36'54.98"N | 86°53'11.29"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | 23°36'58.41"N | 86°53'8.46"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | 23°37'2.38"N | 86°53'8.97"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M | 23°37'12.97"N | 86°53'7.13"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N | 23°37'25.16"N | 86°52'48.57"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| g. | Total land | The existing plant area is 37.65 Acres (15.24 Ha) and additional area required for expansion is 282.95 Acre (114.51 Ha). Hence after expansion, the total plant area will be 320.60 acres (129.75 ha). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| h. | Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 | Out of total plant area, 26.67 Ha land is under the possession of the company. For 32.03 Ha land, LTS (Long Term Settlement) is applied to Govt. of West Bengal and for 71.05 Ha land, consents have been taken from the land owners. The PP has submitted the documentary proof in this regard. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i. | Existence of habitation & involvement of R&R, if any | <p>Plant Site: No habitation exists within the plant site.</p> <p>Study Area: Village falling near to the project site is given below:</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance (km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Beljhupa</td> <td>0.2</td> <td>South</td> </tr> <tr> <td>Banspatali</td> <td>0.5</td> <td>East</td> </tr> </tbody> </table> | Habitation | Distance (km) | Direction | Beljhupa | 0.2 | South | Banspatali | 0.5 | East | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Habitation | Distance (km) | Direction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beljhupa | 0.2 | South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Banspatali | 0.5 | East | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| S. No. | Particulars | Details | | |
|--------|--|---|--------------------------------|----------------------------------|
| | | | Chandurdih | 0.8 |
| | | Dumdumi | 0.8 | NNW |
| j. | Elevation of the project site | 101 m to 118 m above mean sea level. | | |
| k. | Involvement of Forest land if any. | No Forest land is involved in the project site. | | |
| l. | Water body exists within the project site as well as study area | Plant site: | | |
| | | Water body | Distance (km) | Direction |
| | | Seasonal Nala | ~0 Km (inside plant premises) | NW |
| | | Adjacent to the Plant site: | | |
| | | Water body | Distance (km) | Direction |
| | | Stream | ~0 Km (adjacent to the plant) | E |
| | | Study area: Four water bodies fall within 10 km radius: | | |
| | | Water body | Distance (km) | Direction |
| | | Damodar River | ~1.0 | ENE |
| | | Machkanda Jora | ~2.0 | NW |
| | | Ramchandrapur Reservoir | ~5.5 | SW |
| | | Bangarpur Nala | ~6.5 | East |
| m. | Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area | <p>No National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. lies within 10 km radius. Some Reserved Forests (RF) & Protected Forests (PF) are present namely:</p> <ul style="list-style-type: none"> • Dandahit PF (~4.0 km in South direction) • Protected forest (~5.0 km in SE direction) • Lediam PF (~6.5 km in SSW direction) • Pirargoriya PF (~7.0 km in South direction) • Nimitkuri PF (~7.5 km in SSW direction) • Bheti PF (~7.5 km in SW direction) • Kashikunri PF (~8.5 km in South direction) • Panchet RF (~8.5 km in West direction) • Santuri PF (~9.0 km in SSW direction) | | |
| n. | Project cost | Proposed – INR Rs 3420 Crores | | |
| o. | EMP cost | Type | Capital (Rs. in Crores) | Recurring (Rs. in Crores) |
| | | Proposed | 140 | 5.8 |
| p. | Employment opportunity | 1550 persons | | |

| S. No. | Particulars | Details |
|--------|-----------------------------|---|
| q. | Water and Power requirement | (Total)Water –23,113 m3/day, Power –310 MW |

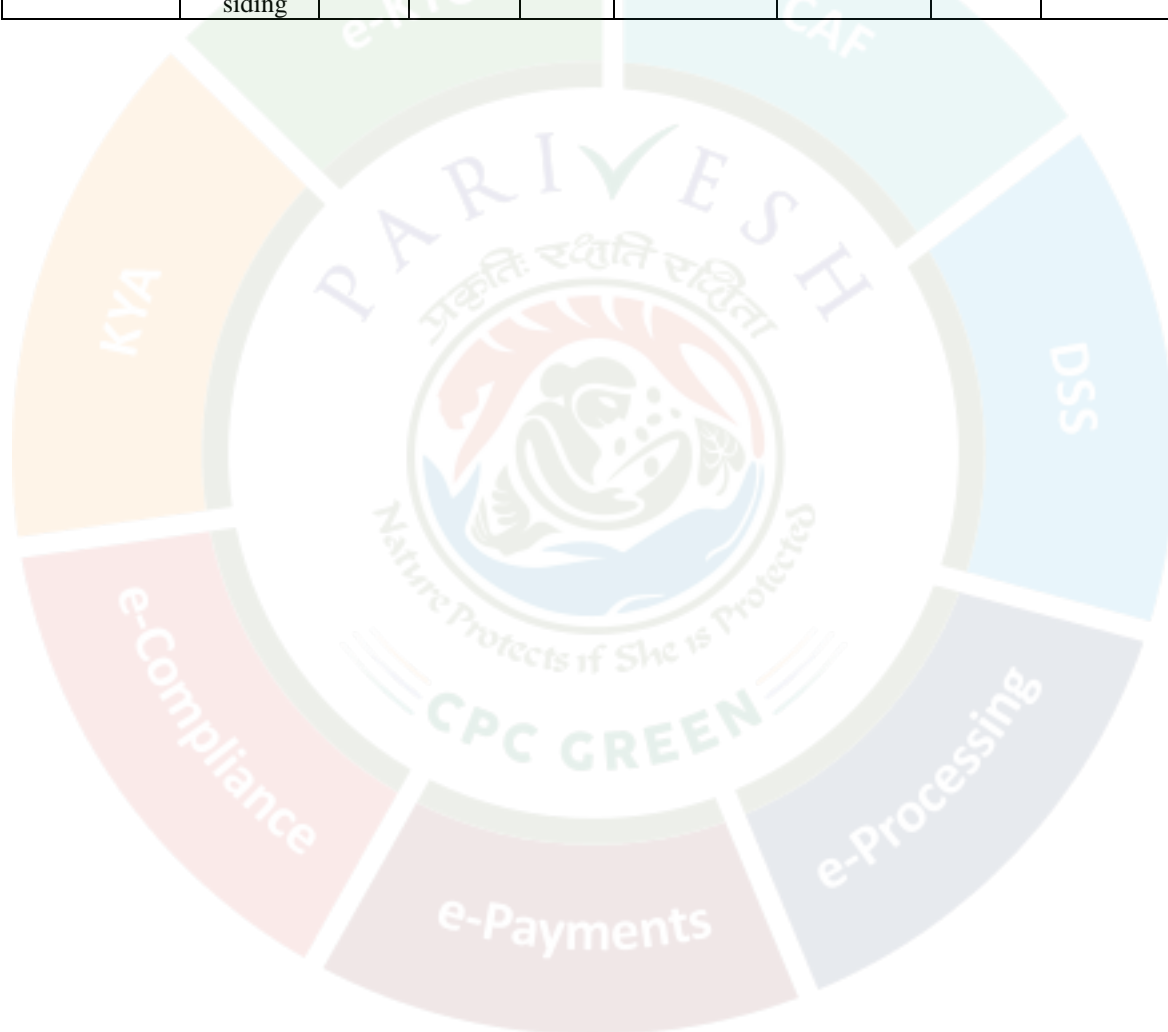


Unit configuration and capacity

| DIVISION | UNIT | EXISTING UNITS | | PROPOSED UNITS | | TOTAL UNITS AFTER EXPANSION | | REMARKS |
|-----------------------|---|----------------|----------------|-------------------------------|-----------------------------|-------------------------------|-----------------------------|---|
| | | Configuration | Capacity (TPA) | Configuration | Capacity (TPA) | Configuration | Capacity (TPA) | |
| DRI Division | Sponge Iron Plant | 4 x 100 TPD | 1,20,000 | Nil | 38,400 | 4 x 100 TPD | 1,58,400 | Increase in working days from 300 to 330 days |
| | | Nil | Nil | 6 x 600 TPD | 14,25,600 | 6 x 600 TPD | 14,25,600 | |
| SMS Division | SMS -1 (IF Route with CCM) | 4 x 8 T | 1,05,720 | Nil | Nil | Nil | Nil | To be dropped & dismantled |
| | SMS -2 (IF Route with LRF, VD/VOD, AOD and CCM) | Nil | Nil | 10 x 30T | 10,05,000 | 10 x 30T | 10,05,000 | Working days for proposed unit is 335 days |
| Rolling Mill Division | Rolling Mill - TMT with RHF | 25 TPH | 48,000 | Nil | Nil | Nil | Nil | To be dropped & dismantled |
| | Rolling Mill, I-Strip Mill with RHF | Nil | Nil | 1000 TPD | 3,35,000 | 1000 TPD | 3,35,000 | Working days for proposed unit is 335 days |
| | TMT cum Wire Rod Mill with RHF | Nil | Nil | 1000 TPD | 3,35,000 | 1000 TPD | 3,35,000 | |
| | Cold Rolling Mill | Nil | Nil | 500 TPD | 1,67,500 | 500 TPD | 1,67,500 | |
| | Galvalume division with colour coating facility | Nil | Nil | 500 TPD | 1,60,000 | 500 TPD | 1,60,000 | |
| | Producer Gas Plant for Rolling mill division | Nil | Nil | 4 x 4000 Nm ³ /hr. | 16,000 Nm ³ /hr. | 4 x 4000 Nm ³ /hr. | 16,000 Nm ³ /hr. | |

| DIVISION | UNIT | EXISTING UNITS | | PROPOSED UNITS | | TOTAL UNITS AFTER EXPANSION | | REMARKS |
|----------------------|-------------------------------------|----------------|----------------|--------------------------------|--|--------------------------------|--|---|
| | | Configuration | Capacity (TPA) | Configuration | Capacity (TPA) | Configuration | Capacity (TPA) | |
| Pellet Division | Pellet Plant with Grinding Facility | Nil | Nil | 2 x 2.4 MTPA | 4.8 MTPA | 2 x 2.4 MTPA | 4.8 MTPA | Nil |
| | Producer Gas Plant | Nil | Nil | 34 x 4000 Nm ³ /hr. | 1,36,000 Nm ³ /hr. | 34 x 4000 Nm ³ /hr. | 1,36,000 Nm ³ /hr. | Nil |
| | PCI Plant | Nil | Nil | 2 x 1000 TPM | 2,40,000 | 2 x 1000 TPM | 2,40,000 | Nil |
| CPP Division | WHRB- 4 x 10 TPH | 56 TPH | 10 MW | Nil | Nil | 56 TPH | 10 MW | Nil |
| | AFBC Boiler - 16 TPH | | | Nil | Nil | | | |
| | WHRB- 6 x 600 DRI | Nil | Nil | 420 TPH | 105 MW | 420 TPH | 105 MW | Nil |
| | CFBC Boiler - 120TPH | Nil | Nil | 120 TPH | 30 MW | 120 TPH | 30 MW | Nil |
| Ferro Alloy Division | Submerged Arc Furnace | 1 x 9 MVA SAF | 15,600 | 7 x 9 MVA | Pig iron- 2,14,668/ Fe-Mn- 1,65,011/ Si-Mn- 1,13,040/ Fe-Si 40,040/ HC Fe-Cr- 1,41,504/ Fe-Si-Cr 84,765 TPA | 8 x 9 MVA | Pig iron- 2,14,668/ Fe-Mn- 1,80,611/ Si-Mn- 1,28,640/ Fe-Si 55,640/ HC Fe-Cr- 1,41,504/ Fe-Si-Cr 84,765 TPA | After expansion existing SAF production will be increased by modification from 15,600 TPA to 24,800 TPA |
| | AOD | Nil | Nil | 1 x 20 T | 66,000 | 1 x 20 T | 66,000 | Nil |
| Others | Jigging Plant | Nil | Nil | 500 TPD | 1,65,000 | 500 TPD | 1,65,000 | Nil |

| DIVISION | UNIT | EXISTING UNITS | | PROPOSED UNITS | | TOTAL UNITS AFTER EXPANSION | | REMARKS |
|----------|-------------------|----------------|----------------|----------------|----------------|-----------------------------|----------------|---------|
| | | Configuration | Capacity (TPA) | Configuration | Capacity (TPA) | Configuration | Capacity (TPA) | |
| | Briquetting Plant | Nil | Nil | 1 x 50 TPH | 3,00,000 | 1 x 50 TPH | 3,00,000 | Nil |
| | Sinter Plant | Nil | Nil | 1 x 300 TPD | 1,00,000 | 1 x 300 TPD | 1,00,000 | Nil |
| | Oxygen Plant | Nil | Nil | 1 x 170 TPD | 170 TPD | 1 x 170 TPD | 1 x 170 TPD | Nil |
| | Railway siding | Nil | Nil | Nil | Nil | Nil | Nil | Nil |



Specific and General EC conditions

A. Specific Condition:

- i. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- ii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iii. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iv. The PP shall complete the process of land acquisition and conversion for industrial use.
- v. There is dense habitation 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. PP 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. There is a seasonal nala inside the plant premises and a stream is flowing adjacent to the plant. Damodar River is at a distance of 1 km with other water bodies near the project site within the study area. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- vii. Total water requirement after proposed expansion of 15560 KLD shall be sourced from Damodar River. PP shall obtain necessary permission from the Competent Authority in this regard.
- viii. Three tier Green Belt shall be developed in at least 33% of the project area in a period of two years to the extent possible all along the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas such as schools and villages nearby project site as committed. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC..
- ix. All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's

OM dated 30.09.2020 amounting to Rs. 50 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.

- x. PP shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.
- xi. PP shall carry out the periodical monitoring of soil quality in nearby villages as a part of post project compliance monitoring work.

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. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- iii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.

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

- xxiv. 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.
- xxv. 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.
- xxvi. Low NO_x Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.

III. Water quality monitoring and preservation

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

IV. Noise monitoring and prevention

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

V. Energy Conservation measures

- i. Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
- ii. Restrict Gas flaring to < 1%.
- iii. 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;
- iv. Provide LED lights in their offices and residential areas.
- v. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- vi. Practice hot charging of slabs and billets/blooms as far as possible.
- vii. Ensure installation of regenerative type burners on all reheating furnaces.
- viii. The project proponent shall provide waste heat recovery system on the DRI Kilns.
- ix. The dolochar generated shall be used for power generation.
- x. Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
- xi. The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

VI. Waste management

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

along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.

- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- vi. Solid waste utilization
 - a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
 - b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
 - c. Used refractories shall be recycled as far as possible.
- vii. SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.
- viii. Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
- ix. Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.

VII. Green Belt

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

VIII. Public hearing and Human health issues

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

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. The company shall have a well laid down environmental policy duly 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, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under

the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

- viii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
- xi. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
- xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xiii. 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.

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

| SL No . | Sectors | Concerns raised during the Public Hearing | Physical activity to be done | Unit of Measurement | | | | Cost (in Lakhs) |
|---------|-----------|---|--|--|---|---|--|-----------------|
| | | | | 01 st Year | 02 nd Year | 03 rd Year | 4 th Year | |
| 1 | Education | Developmental activities for schools | <p>Development of Primary School of which involves construction of one classroom along with repairing/maintenance of other classrooms,</p> <p>Providing furniture & white boards in all classrooms,</p> <p>Construction of separate toilets for boys & girls,</p> <p>Development of playground in the school</p> <p>Installation of drinking water system (submersible pump and Water Cooler).</p> <p>Plantation surrounding School & Locality</p> | <p>1. Poradiha Sishu Siksha Kendra</p> <p>2. Poradiha Prathamik Bidyalaya</p> <p>3. Beljhupa Prathamik Bidyalaya</p> <p>4. Beljhupa Junior High School</p> | <p>1. Dumdumi Prathamik Bidyalaya</p> <p>2. Chandurdi Prathamik Bidyalaya</p> | <p>1. Balitora Prathamik Bidyalaya</p> <p>2. Balitora High (HS) School</p> <p>3. Jagannath di Prathamik Bidyalaya</p> | <p>1. Pachandapur Prathamik Bidyalaya</p> <p>2. Pachandapur Junior High School</p> | 505.0 |
| | | | Budget in Lakhs | 185.0 | 90.0 | 140.0 | 90.0 | |

| SL No . | Sectors | Concerns raised during the Public Hearing | Physical activity to be done | Unit of Measurement | | | | Cost (in Lakhs) |
|------------------------|------------|--|--|---------------------------------|----------------------------------|---------------------------------|------------------------------------|-----------------|
| | | | | 01 st Year | 02 nd Year | 03 rd Year | 4 th Year | |
| 2 | Education | Developmental activities for schools | Construction of Boundary wall (6 schools) | 1. Poradiha Sishu Siksha Kendra | 1. Chandurdi Prathamik Bidyalaya | 1. Balitora Prathamik Bidyalaya | 1. Pachandapur Prathamik Bidyalaya | 90.0 |
| | | | | 2. Poradiha Prathamik Bidyalaya | | | | |
| Budget in Lakhs | | | | 45.0 | 15.0 | 15.0 | 15.0 | |
| 3 | Education | Developmental activities for schools | Library | | | Balitora High (HS) School | | 20.0 |
| | | | | Budget in Lakhs | | | | |
| 4 | Education | Establishment of Smart School | Establishment of Smart School (upto High School) owned and operated by Company | | 320 | 280 | 200 | 800.0 |
| 5 | Education | School Bus | Four buses will run to support School transportation | 40 | 80 | 0 | 40 | 160.0 |
| 6 | Education | Rural Literacy Mission | This project aims to teach literacy to people between the ages of 15 and 65. | 15 | 15 | 15 | 15 | 60.0 |
| 7 | Healthcare | Construction of Health Checkup Centre with pathological facility | Construction of Health Check-up Centre at village Poradiha & Chandurdi with arrangement of visiting doctor 03 days in a week. Villagers shall be | At Village Poradiha | At Village Chandurdi | At Village Sunrhi | At Village Beljhupa & Dumdumi | 400.0 |

| SL No . | Sectors | Concerns raised during the Public Hearing | Physical activity to be done | Unit of Measurement | | | | Cost (in Lakhs) |
|---------|------------------------------------|---|--|----------------------------|------------------------------|---|--|-----------------|
| | | | | 01 st Year | 02 nd Year | 03 rd Year | 4 th Year | |
| | | | benefitted with free medical assistance and medicines from the centre at primary level treatment. | | | | | |
| | | | Budget in Lakhs | 80.0 | 80.0 | 80.0 | 160.0 | |
| 8 | Healthcare | Sanitary pad vending machines | Self-service machines that dispense sanitary pads | 1.4 | 0.8 | 1.0 | 1.4 | 4.6 |
| 9 | Healthcare | Health on Wheels | Ambulance facility for locals fully integrated with emergency facilities like cylinder, nebulizer, stretcher etc. with medicines. | 50.0 | 5.0 | 45.0 | 10.0 | 110.0 |
| 10 | Rural Infrastructure & Development | Installation of Solar Light | Installation of street solar lights in schools & villages | 40 Nos at village Poradiha | 40 Nos. at village Chandurdi | 20 Nos. At village Sunrhi & 25 Nos. at village Kasthogora Dumdumi , Kapashdanga 10 Nos. in each | 20 Nos. at village Balitora & Beljhupa 10 Nos. in each | 120 |
| | | | Budget in Lakhs | 20.0 | 20.0 | 50.0 | 30.0 | |
| 11 | Rural Infrastructure & Development | Public Bus Stand | Construction of One (02) Public Bus Stand with shelter near Poradiha village & Madhikunda Bus Stop at Mudhukunda-Saltora road which will include Platform construction and Installation of | At Village Poradiha | At Madukunda bus stand | -- | -- | 30.0 |

| SL No . | Sectors | Concerns raised during the Public Hearing | Physical activity to be done | Unit of Measurement | | | | Cost (in Lakhs) |
|---------|------------------------------------|---|--|--------------------------------|------------------------|-----------------------|--|-----------------|
| | | | | 01 st Year | 02 nd Year | 03 rd Year | 4 th Year | |
| | | | Pre-Fabricated Shelter. | | | | | |
| | | | Budget in Lakhs | 15.0 | 15.0 | -- | -- | |
| 12 | Rural Infrastructure & Development | Development of Water Drainage System | Construction of drainage network in the villages for to avoid water logging in the villages | Village Poradiha | Village Shunrhi | Village Chandurdi | Village Kasthoga ra & Beljhupa | 190.0 |
| | | | Budget in Lakhs | 50.0 | 30.0 | 40.0 | 70.0 | |
| 13 | Rural Infrastructure & Development | Temple | Construction of Temple | Village Poradiha Adivasi Para | | | | 40.0 |
| | | | Budget in Lakhs | 40.0 | | | | |
| 14 | Rural Infrastructure & Development | Temple | Renovation of Temples | | Village Chandurdi | Village Shunurhi | Village Beljhupa & Dumdumi & Banshpeta ali | 48.0 |
| | | | Budget in Lakhs | 12.0 | 12.0 | 12.0 | 12.0 | |
| 15 | Rural Infrastructure & Development | Development of Community Hall | Development of Community Hall | Village Poradiha | Village Chandurdi | Village Shunurhi | Village Beljhupa & Dumdumi & Banshpeta ali | 125.0 |
| | | | Budget in Lakhs | 25.0 | 25.0 | 25.0 | 50.0 | |
| 16 | Rural Infrastructure & Development | Development of Community Math (for community program) | Development of Community Math shall be done at Adibasi Para & Bengali Para of village Poradiha with 01 room, sitting arrangement Mark-2 Hand Pump etc. | Village Dumdumi & Banspeta ali | Adivashi Para Poradiha | Bengali Para Poradiha | Village Beljhupa | 140.0 |
| | | | Budget in Lakhs | 50 | 30.0 | 30.0 | 30 | |

| SL No . | Sectors | Concerns raised during the Public Hearing | Physical activity to be done | Unit of Measurement | | | | Cost (in Lakhs) |
|---------|---|--|---|----------------------------|--|-----------------------|----------------------|-----------------|
| | | | | 01 st Year | 02 nd Year | 03 rd Year | 4 th Year | |
| 17 | Rural Infrastructure & Development | Children Park | Construction of two Children Parks | | 50.0 | | 50 | 100.0 |
| 18 | Rural Infrastructure & Development | Solar power at Children Park | Solar Power & lights installation at Children parks | | 25 | | 25 | 50.0 |
| 19 | Rural Infrastructure & Development | Development of Ponds for Rain Water Harvesting | Renovation/upgradation of village pond will include first time shaping with excavation and slide slope stabilization, Construction of 01 nos. Bathing Ghat on one side with changing area, pair of toilets with septic tank, one hand pump and Beautification of pond by plantation of trees along boundary of pond along with Yearly Cleaning/Desilting of Pond. | Village Poradiha | Village Shunrhi | Village Chandurdi | Village Balitora | 250.0 |
| | | | | | Village Madhukunda | Village Jagannathdih | | |
| | | | | Village Dumdumi | Village Kapashdanga | Village Kasthogora | Village Banshpatali | |
| | | | Budget in Lakhs | 50.0 | 75.0 | 75.0 | 50.0 | |
| 20 | Livelihood, Skill Development & Women Empowerment | Skill Development Centre for Women | Construction of women community centre for promotion of self-help groups for women in villages for their skill development. | Village Poradiha & Bejhupa | Village Chandurdi & Bashpetali/Dumdumi | Village Shunrhi | Village Jagannathdih | 255.0 |
| | | | | | | | | |
| | | | Budget in Lakhs | 50.0 | 110.0 | 50.0 | 45.0 | |

| SL No . | Sectors | Concerns raised during the Public Hearing | Physical activity to be done | Unit of Measurement | | | | Cost (in Lakhs) |
|------------------------|---|---|--|----------------------------|--|-----------------------|----------------------|-----------------|
| | | | | 01 st Year | 02 nd Year | 03 rd Year | 4 th Year | |
| 21 | Livelihood, Skill Development & Women Empowerment | Samarthya (Women Empowerment) | Women empowerment programs to promote self-efficiency, such as by distribution of sewing machines and training for making cotton hand gloves, sanitary pads etc. in local villages. This will be an earning source for women in villages by their skill development. | Village Poradiha & Bejhupa | Village Chandurdi & Bashpetali/Dumdumi | Village Shunrhi | Village Jagannathdih | 115.0 |
| Budget in Lakhs | | | | 25.0 | 40.0 | 25.0 | 25.0 | |
| 22 | Livelihood, Skill Development & Women Empowerment | Skill Development Centre for local youth | Company shall undertake construction of Skill Development Centre for skill development of local youth at Village Panchayat Balitora which will include construction of Building and installation of appropriate devices & Machineries required in the centre | | 5 | 85.0 | 5.0 | 95.0 |
| 23 | Livelihood, Skill Development & Women Empowerment | Skill Development Program | Mass community based programs to promote and enhance skills in rural segments and support locals. | 5 | 5 | 5.0 | 5.0 | 20.0 |

| SL No . | Sectors | Concerns raised during the Public Hearing | Physical activity to be done | Unit of Measurement | | | | Cost (in Lakhs) |
|---------|------------------------------|---|--|--|------------------------------------|---|---|-----------------|
| | | | | 01 st Year | 02 nd Year | 03 rd Year | 4 th Year | |
| 24 | Environment & Sustainability | Plantation | Plantation shall be done toward nearby villages of the project site and different other locations including schools and roadside plantations as mentioned in the year wise plan in this table. | 500 Nos. Around Adivasi and Bengali community ground and Poradiha Play ground | 250 Nos. Around Banshpatali Math | 200Nos. In front of Bejhupa Junior High School & 300 Nos. Around Chandudi Playgroun d | 300 Nos. Around Kastogra High school and around Playgroun d | 52.45 |
| | | | | 800Nos. Either side of the road connecting to plant from Madhukunda Saltora road | 500 Nos. Towards village Chandurdi | 200 Nos. At village Dandak & 200 Nos. around village Kapashda ng | 200 Nos Towards At village Dumdum i | |
| | | | Budget in Lakhs | 19.5 | 11.3 | 13.5 | 8.2 | |
| 25 | Environment & Sustainability | Water Sprinkling on roads | Company has already deployed and shall also be deployed 02 nos. water tankers for suppression of dust due to vehicular movement | -- | 01 Truck mounted water tanker | -- | 01 Truck mounted water tanker | 100.0 |
| | | | | | | | | |
| | | | Budget in Lakhs | -- | 50.0 | -- | 50.0 | |
| 26 | Environment & Sustainability | Truck Mounted Mist Cannon | Company shall purchase 02 nos. truck mounted mist cannon for fugitive dust suppression inside the plant and its surroundings. | -- | 01 Truck mounted mist cannon | -- | 01 Truck mounted mist cannon | 120.0 |
| | | | | | | | | |
| | | | Budget in Lakhs | | 60.0 | | 60.0 | |
| 27 | Environment & Sustainability | Road Sweeping Machine | Company shall purchase a truck mounted road sweeping machine to reduce fugitive | | | 01Road Sweeping Machine | 01Road Sweepin g Machine | 110.0 |

| SL No . | Sectors | Concerns raised during the Public Hearing | Physical activity to be done | Unit of Measurement | | | | Cost (in Lakhs) |
|---------|--------------------------------------|---|--|---|---|---|---|-----------------|
| | | | | 01 st Year | 02 nd Year | 03 rd Year | 4 th Year | |
| | | | dust emission from roads due to vehicular movements. | | | | | |
| | | | Budget in Lakhs | | | 55 | 55 | |
| 28 | Drinking Water, Hygiene & Sanitation | Village Health, Sanitation & Nutrition Program | The purpose is to address health and social issues related to Sanitation and Nutrition at the village level | 25.0 | 25.0 | 25.0 | 25.0 | 100.0 |
| 29 | Drinking Water, Hygiene & Sanitation | Khushal Gram Vikas Yojana (Rural Cleanliness Program) | The program addresses the cleanliness activities in nearby villages and locality | 15.0 | 12.0 | 10.0 | 15.0 | 52.0 |
| 30 | Drinking Water, Hygiene & Sanitation | Drinking Water Facility | Installation of Mark-2 Hand Pump | 10 Nos. at village Poradiha & 10 Nos. 05 nos. each at village Madhukunda & Jagannathdih | 10 Nos. 05 nos. each at village Candurdi & Sunrhi | 10 Nos. 05 nos. each at village Belhupa & Kapashdanga | 10 Nos. 05 nos. each at village Dumdumi & Banshpatali | 60.0 |
| | | | | Budget in Lakhs | 24.0 | 12.0 | 12.0 | |
| 31 | Drinking Water, Hygiene & Sanitation | Water Tanker for supply of drinking water | Company shall arrange 02 nos. water tanker for drinking water supply to local villagers for their community needs. | 01 no. water tanker with tractor | -- | 01 no. water tanker with tractor | 01 no. water tanker with tractor | 75.0 |
| | | | | Budget in Lakhs | 25.0 | -- | 25.0 | |
| 32 | Sports | Development of Playground | Development of Sports Ground | Village Poradiha | Village Banshpatali & Village Dumdumi | Village Beljhupa | Village Chandurdi | 125.0 |
| | | | | Budget in Lakhs | 25 | 50 | 25 | |

| SL No . | Sectors | Concerns raised during the Public Hearing | Physical activity to be done | Unit of Measurement | | | | Cost (in Lakhs) |
|---------|--|--|--|--|---|--|----------------------|-----------------|
| | | | | 01 st Year | 02 nd Year | 03 rd Year | 4 th Year | |
| 33 | Sports | Sports Promotion among local youth | Company organize and shall organize Football/Cricket Tournament for local youth | Company shall organize Football/Cricket tournament for the youths of village Poradiha, Chandurdi, Sunrhi, Dumdumi, Beljhupa and other surrounding villages | | | | 25.0 |
| | | | Budget in Lakhs | 25.0 | | | | |
| 34 | Sports | School Sports | Annual School Sports Sponsorship Program | 5 | 5 | 5 | 5 | 20.0 |
| 35 | Social Inclusion & Community Development | Community Cultural Development Program | Company shall invest for community development programs for the village Poradiha, Pachhandapur for making Community Rasoi & worship temples as demanded by the local people | Community Rasoi & shed at Bengali Para village Poradiha | Community Temple at Adivasi Para Poradiha | Community Rasoi & shed at village Pachhandapur | -- | 70.0 |
| | | | Budget in Lakhs | 25 | 20 | 25 | -- | |
| 36 | Social Inclusion & Community Development | Hope Centre for 'specially abled' children | Construction of infrastructure for various rehabilitation services such as physiotherapy for mobility improvement, special education to mentally challenged children, special education for speech and hearing impaired children, and creating skill upgradation opportunities at village panchayat Balitora | 30 | 30 | 75.0 | 75.0 | 210.0 |

| SL No . | Sectors | Concerns raised during the Public Hearing | Physical activity to be done | Unit of Measurement | | | | Cost (in Lakhs) |
|---|--|---|--|-----------------------|-----------------------|-----------------------|----------------------|-----------------|
| | | | | 01 st Year | 02 nd Year | 03 rd Year | 4 th Year | |
| 37 | Social Inclusion & Community Development | Burning Ghat | Construction of Burning ghat for all nearby villages | | 40 | 40.0 | 20.0 | 100.0 |
| 38 | Social Inclusion & Community Development | Snan Ghat | Construction of Snan Ghats for nearby Villages | | 20 | 20.0 | 15.0 | 55.0 |
| Budget as per issues raised during public hearing (Rupees in Lakh) | | | | | | | | 5002 |
| Total (Rupees in Crores) | | | | | | | | 50 |

