



File No: IA-J-11011/366/2010-IA-II(IND-I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date **15/07/2024**



To,

M/s GIRIDHAN METAL PRIVATE LIMITED
Premlata, 39, Shakespeare Sarani, 3rd Floor, Kolkata , KOLKATA, WEST BENGAL, , 700017
E-mail: giridhanmetal@gmail.com

Subject: **Expansion of Integrated Steel Plant: Sponge Iron from 3,18,000 TPA to 9,12,000 TPA, MS Billets from 3,72,300 TPA to 4,96,500 TPA, Rolling Mill from 3,00,000 TPA to 4,00,000 TPA, Submerged Arc Furnace from 30,000 TPA (Fe-Mn/Si-Mn) to 82,300 TPA Fe-Mn or 56,200 TPA Si-Mn or 56,200 Fe-Cr or 48,100 Si-Cr or 43,100 TPA Fe-Si or 82,300 TPA Pig Iron with proposed Electric Arc Furnace (25,000 TPA), Captive Power Plant (42 to 102 MW) including WHRB (21 to 81 MW) by additional installation of 60 MW WHRB by M/s. Giridhan Metal Private Limited, located at Jamuria Industrial Estate, Village Ikra & Damodarpur, Tehsil Jamuria, District Paschim Bardhaman, West Bengal - Grant of Environmental Clearance- Reg**

Sir/Madam,

This refers to your proposal no. IA/WB/IND1/459702/2024 dated 22.02.2024 along with copy of EIA report and Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. Further, the PP has uploaded the ADS reply on 10.05.2024.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A1001WB5293926N
(ii) File No.	IA-J-11011/366/2010-IA-II(IND-I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous),1(d) Thermal Power Plants
(vi) Sector	Industrial Projects - 1 Expansion of Integrated Steel Plant: Sponge Iron from 3,18,000 TPA to 9,12,000 TPA, MS Billets from 3,72,300 TPA to 4,96,500 TPA, Rolling Mill from 3,00,000 TPA to 4,00,000 TPA, Submerged Arc Furnace from 30,000 TPA (Fe-Mn/Si-Mn) to
(vii) Name of Project	

	82,300 TPA Fe-Mn or 56,200 TPA Si-Mn or 56,200 Fe-Cr or 48,100 Si-Cr or 43,100 TPA Fe-Si or 82,300 TPA Pig Iron with proposed Electric Arc Furnace (25,000 TPA), Captive Power Plant (42 to 102 MW) including WHRB (21 to 81 MW) by additional installation of 60 MW WHRB
(viii) Name of Company/Organization	M/s GIRIDHAN METAL PRIVATE LIMITED
(ix) Location of Project (District, State)	PASCHIM BARDHAMAN, WEST BENGAL
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

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

4. The instant Proposal was considered in the 56th EAC Meeting held on 14-15 March 2024 wherein the EAC has deferred the proposal and recommended for site visit. The proposal was further considered during 59th EAC meeting held on 24th May, 2024. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

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

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

7. The EAC, in its 59th meeting held during **24th April, 2024**, inter-alia, deliberated the following:

i. The instant proposal is for expansion of Integrated Steel Plant: Sponge Iron from 3,18,000 TPA to 9,12,000 TPA, MS Billets from 3,72,300 TPA to 4,96,500 TPA, Rolling Mill from 3,00,000 TPA to 4,00,000 TPA, Submerged Arc Furnace (SAF) from 30,000 TPA (Fe-Mn/Si-Mn) to 82,300 TPA Ferro Manganese or 56,200 TPA Silico Manganese or 56,200 Ferro Chrome or 48,100 Silico Chrome or 43,100 TPA Ferro Silicon or 82,300 TPA Pig Iron with proposed Electric Arc Furnace (25,000 TPA), Captive Power Plant (42 MW to 102 MW) including Waste Heat Recovery Boiler (WHRB) (21 MW to 81 MW) by additional installation of 60 MW Waste Heat Recovery Boiler.

ii. The existing project was accorded environmental clearance from MoEFCC, New Delhi vide letter no. J-11011/366/2010-IA-II(I) dated 8th April, 2021 for Expansion of Steel Plant by expanding Sponge Iron from 1,20,000 TPA to 3,18,000 TPA, MS Billets from 1,05,000 TPA to 3,72,000 TPA, Rolling Mill from 1,00,000 TPA to 3,00,000 TPA, Submerged Arc Furnace (SAF) from 15,000 TPA to 30,000 TPA & Captive Power Plant from 16 MW to 42 MW including Waste Heat Recovery Boiler at Jamuria Industrial Estate, Village Ikra & Damodarpur, Tehsil Jamuria, District Paschim Bardhaman, West Bengal. Thereafter EC was amended vide letter dated 16th January, 2023 w.r.t. dropping the proposal of Railway Siding with Wagon Tippler. Consent to Operate for the existing units were accorded by West Bengal Pollution Control Board. The company obtained Consent to Establish from West Bengal Pollution Control Board vide NOCNO164560 dated 28.06.2021 valid till 31.05.2028. The company obtained Consent to Operate from West Bengal Pollution Control Board for all the operational units. CTO has been obtained for 350 TPD DRI Kiln & 32 TPH boiler vide Consent Letter No. CO131954 dated 26.07.2021 valid till 31.07.2026; for 600 TPD DRI Kiln & 70 TPH WHRB vide Consent Letter No. CO132190 dated 23.08.2022 valid till 31.07.2026, for 2x9 MVA Submerged Arc Furnace vide Consent Letter No. CO132108 dated 08.12.2021 valid till 31.07.2026 & for Induction Furnace – 6x20 T, Steel Flat & Rolled Product – 0.3 MTPA & Captive Power Plant – 21 MW (CFBC – 82 TPH) vide Consent Letter No. CO141074 dated 18.05.2023 valid till 31.07.2026.

iii. The PP reported the following chronology of events in the case of existing project:

- M/s Giridhan Metal Private Limited took over the Assets of M/s Damodar Ispat Limited in 2020. M/s Damodar Ispat Limited obtained EC for expansion of existing unit of 1x50 TPD (15,000 TPA) DRI by 3x100 TPD DRI (1,05,000 TPA of sponge iron), 2x15T IF, 1x30T LF (1,05,000 TPA of MS Billets), 310 TPD Rolling mill (1,00,000 TPA of Rods/bars/light structurals), 1x9 MVA SAF (15,000TPA of Fe–Mn/Si–Mn), 1x5 TPH, 2X10TPH WHRB & 1X32 TPH FBC Boiler, and 16 MW Captive Power Plant (7 MW of WHRB and 9 MW of FBC) vide letter no. J-11011/366/2010-IA.II(I) dated 02.04.2012, but would not implemented due to financial constraint, except 1x50 TPD DRI plant.

- In 2019, M/s Damodar Ispat Limited planned to implement the EC and obtained the CTE against the EC dated 02.04.2012 from the West Bengal Pollution Control Board vide NOC NO159358 on 15.02.2019.

- Meanwhile, M/s Damodar Ispat Limited got the validity extension of the EC vide letter No J-11011/366/2010-IA-II(I) on 24.05.2019 to till 01.04.2022 and also got the permission to set up 1x350 TPD DRI against 1x50 TPD + 3x100 TPD DRI.

- Subsequently, M/s Damodar Ispat Limited planned for expansion and obtained the ToR for Expansion of Steel Plant by expanding Sponge Iron from 1,20,000 TPA to 3,18,000 TPA, MS Billets from 1,05,000 TPA to 3,72,300 TPA, Rolling Mill from 1,00,000 TPA to 3,00,000 TPA, Submerged Arc Furnace (SAF) from 15,000 TPA to 30,000 TPA & Captive Power Plant from 16 MW to 42 MW including Waste Heat Recovery Boiler (WHRB) vide letter No J-11011/366/2010-IA-II(I) on 01.10.2019.

- After that M/s Giridhan Metal Private Limited transferred the EC of 2012, CTE and ToR for the new expansion project from M/s Damodar Ispat Limited to M/s Giridhan Metal Private Limited. The date wise transfer documents are as follows

S. No	Details	Document no. with date
1	Transfer of EC dtd. 02.04.2012 from M/s Damodar Ispat Ltd. to M/s Giridhan Metal Pvt. Ltd	J-11011/366/2010-IA-II(I), Dated 29.01.2020
2	Transfer of ToR for expansion project from M/s Damodar Ispat Ltd. to M/s Giridhan Metal Pvt. Ltd	J-11011/366/2010-IA-II(I), Dated 16.03.2020
3	Transfer of CTE against EC 2012 from M/s Damodar Ispat Ltd. to M/s Giridhan Metal Pvt. Ltd	NO164500, Dated 04.08.2020

- The Ministry accorded the EC to M/s Giridhan Metal Private Limited vide letter no. J-11011/366/2010-IA.II (I) dated 08.04.2021 for Expansion of Steel Plant by expanding Sponge Iron from 1,20,000 TPA to 3,18,000 TPA, MS Billets from 1,05,000 TPA to 3,72,300 TPA, Rolling Mill from 1,00,000 TPA to 3,00,000 TPA, Submerged Arc Furnace (SAF) from 15,000 TPA to 30,000 TPA & Captive Power Plant from 16 MW to 42 MW including Waste Heat Recovery Boiler (WHRB). The EC for 2021 has also the provision of Railway Siding with Wagon Tippler.

- Meanwhile, M/S PICASONA and M/s Holtec Consulting Pvt. Ltd. was appointed by M/s Damodar Ispat Limited for survey work of railway siding with wagon tippler which was later on carried forward under M/s Giridhan Metal Private Limited. M/S PICASONA did the survey accordingly and online application was made to the Railway Authorities on 18.08.2020 for railway siding with wagon tippler. After getting the study report from M/s PIR (Formerly M/S PICASONA) and M/s Holtec, the feasibility study report along with drawing was submitted to the Railway Authorities on 16.09.2020, and In-principle approval was granted on 07.10.2020.

- The company then obtained Consent to Establish (NOC) for the same along with Railway Siding with Wagon Tippler from the West Bengal Pollution Control Board vide NOC NO164560 dated 28.06.2021, valid till 31.05.2028.

- After getting the CTE, M/s Giridhan Metal Private Limited, started the construction for all plants including Railway Siding with Wagon Tippler and allied facilities. Consent to Operate for all plants excluding Railway Siding with Wagon Tippler has been accorded by WBPCB, valid till 31.07.2026.

- After getting the in-principle approval from the Railway Authority and CTE from the WBPCB, M/s Giridhan Metal Private Limited offered the civil work order for the construction on 21.03.2021 and started the construction activity for wagon tippler as per drawing. However, due to technical constraints, the railway authorities denied permission for the proposal. In the meantime, the railway siding was partially constructed at site close to the two existing DRI units. After conducting a survey, Eastern Railway vide their letter no TPM. 215/New Siding/2002 dated 07.09.2022 had rejected the

proposal for non-viability of construction of railway private siding. Since huge cost was already incurred, the company tried to persuade the authorities to reconsider their decision but unfortunately final rejection was given by railways dated 11.11.2022. The company immediately issued a letter to stop the construction activity and lifting up the related machineries to their contractor on 23.11.2022.

- After then the company applied for amendment of EC for dropping of Railway Siding only and got the amendment EC vide letter no J-11011/366/2010-IA-II(I) on 16.01.2023.

- Since a huge cost had already incurred in partial construction of railway siding and considering the conservation of natural resources, the company planned to utilize the partial construction of railway siding and accordingly, the company has approached their technical consultants M/s TOR Steel Pvt. Ltd. on 20.01.2023 regarding feasibility of the existing half-done construction of railway siding to utilize in construction of their envisaged 2x900 TPD DRI kilns, otherwise they have to demolish those structures. The consultants have preliminarily examined the structures and have given in principle approval provided certain modifications (including demolition of some sections) are carried out to make it suitable for DRI erection.

- After getting the in-principle approval from M/s TOR Steel Pvt. Ltd., the company approached to MoEF&CC for further expansion and applied for ToR. The ToR has been granted to M/s Giridhan Metal Private Limited on 10.03.2023. Accordingly, the company processed for draft EIA report followed by Public Hearing through the WBPCB.

- After preparation of draft EIA, the company requested to the Regional office of MoEF&CC for CCR. The authorities of MoEF&CC were visited the plant on 01.10.2023 and made some observations of non-compliances on the EC dated 08.04.2021.

- M/s Giridhan Metal Private Limited, submitted the ATR on the observations and close the non-compliances on 13.12.2023 and 18.01.2024 and the present conditions of the observations as detailed in relevant section.

iv. 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.

v. 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.

vi. 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.

vii. 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.

viii. The EAC also deliberated on the observations and recommendations of the sub-committee based on its site visit and have drawn its recommendations accordingly.

ix. The Existing plant area is 31.74 Hectares (78.44 Acres) and additional area required for expansion is 3.46 Hectares (8.56 Acres). Hence, total plant area after expansion will be 35.21 Hectares (87 Acres). PP has reported that complete land is under the possession of the company converted for industrial purpose.

x. Damodarpur Village is adjacent in NW, Sekpur Village (0.5 km, E), Akhalpur Village (0.59 km, WSW), Ikra Village (0.88 km, SE), Mandalpur Village (1 km, SW) exists along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the

locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.

xi. As reported, there are several water bodies within the study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.

xii. Existing water requirement is 4178 m³/day, which is obtained from Surface Water (River Damodar) through Damodar Valley Corporation (DVC) vide Memorandum of Association (MOU) dated 29.11.2021. The fresh makeup water requirement after expansion is estimated as 6730 m³/day that will be obtained from Surface Water (River Damodar) through Damodar Valley Corporation (DVC). Request application has been made to Damodar Valley Corporation (DVC) for additional water vide dated 22.12.2023. The EAC deliberated on the water requirement and is of the opinion that PP shall obtain necessary permission from the Competent Authority prior to commencement of expansion project.

xiii. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and is of the opinion that PP shall undertake strict measures to reduce the level of pollution.

xiv. The PP has submitted that earmarked green area within the plant as per earlier Environmental Clearance is 12.7 Ha. which is about ~40% of existing project area of 31.74 Ha. with total sapling of 23195 no. of trees and remaining 8555 no. of trees will be planted in the existing greenbelt area during upcoming monsoon season. Proposed greenbelt will be developed in 1.4 ha area (~40% of additional plot area i.e., 3.47 Ha.). Thus, total of 14.1 Ha. area (~40% of total project area, i.e., 35.21 Ha.) will be developed as a greenbelt. Total no. of 35250 no. of trees/saplings will be planted and nurtured in 14.1 hectares. 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 in the monsoon season of 2024 as committed.

xv. 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.

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

xvii. The committee deliberated on the certified compliance report of IRO along with ATRs submitted by the project proponent and review report issued by the IRO and found it satisfactory.

xviii. The EAC also deliberated on the ADS reply of the project proponent related to observations of EAC in earlier meeting, observations and recommendation of EAC sub-committee during site visit and found it satisfactory. Based on the site visit of EAC sub Committee report by EAC [comprising Two Members of the EAC and Officers from IRO, MoEFCC, SPCB & IA Division] and the information submitted by the PP, EAC is of the view that there is no violation.

xix. The PP reported that they have obtained a peer review report from Jadavpur University, Kolkata regarding the old partial construction of railway siding with wagon tippler and regarding extension of TG building & extension of coal shed area. The EAC deliberated and is of the view that PP shall follow the recommendations of the report from Jadavpur University, Kolkata.

xx. 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.

xxi. 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.

xxii. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to

most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

8. The EAC (Industry-1 Sector), in its 59th meeting held during 24th May, 2024, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Environment Clearance subject to stipulation of specific and general EC conditions as detailed in **Annexure-III**.

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

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

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

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

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

14. This issues with approval of the competent authority.

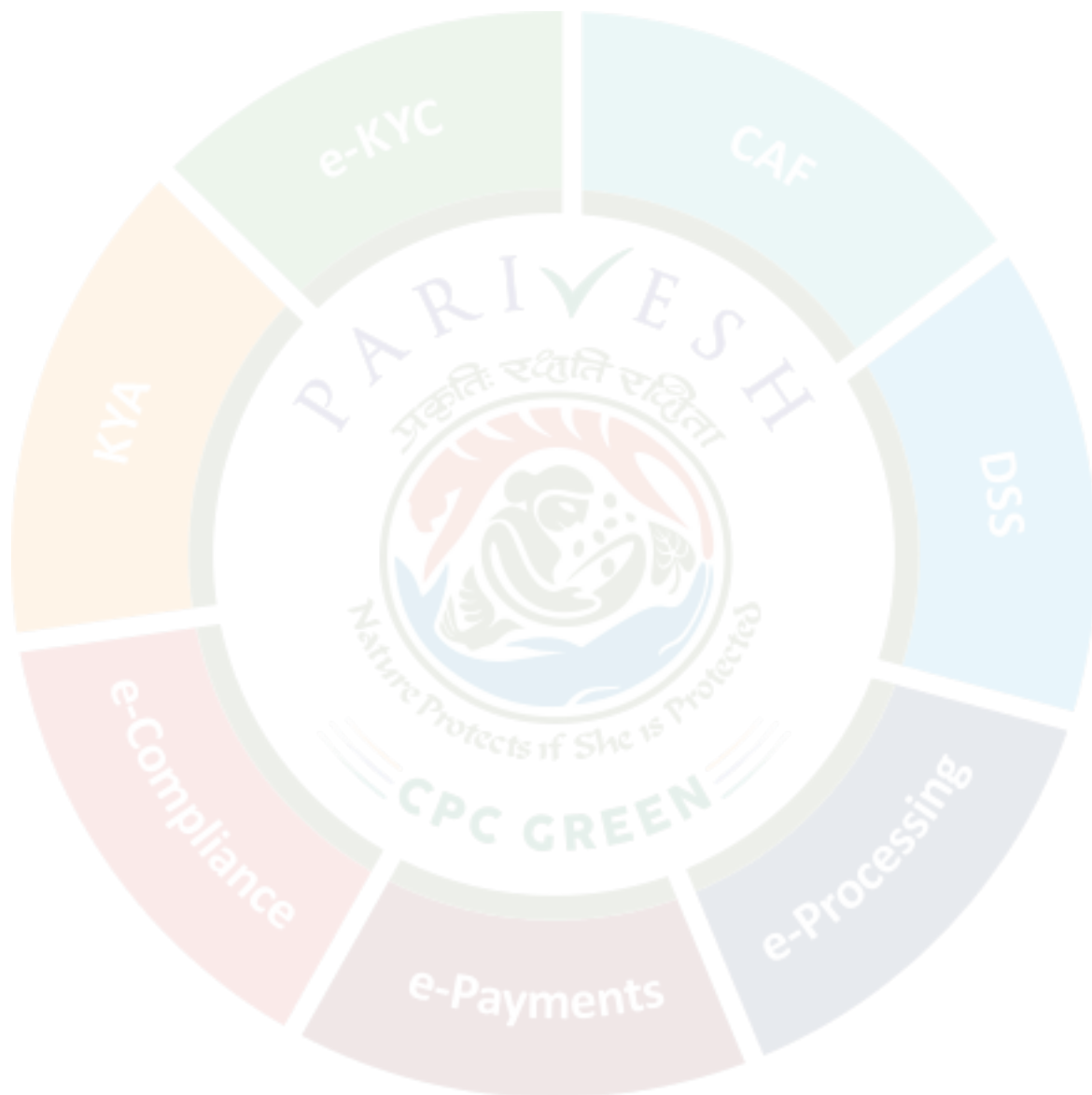
(Dinesh Runiwal)
Scientist 'F'/ Director
Tel: 011-20819289
Email-d.runiwal@gov.in

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, Paschim Bardhaman District, West Bengal.
- 11. Guard File/Monitoring File/Website/Record File/ Parivesh Portal

(Dinesh Runiwal)
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	10.03.2023																		
b.	Period of baseline data collection	Winter Season (December, 2022 to February, 2023)																		
c.	Date of Public Consultation	18 th December, 2023																		
d.	Action plan to address the PH issues	An amount of Rs 16 Cr have been earmarked for action plan. Detail of activities proposed attached as Annexure IV .																		
e.	Location of the project	Jamuria Industrial Estate, Village Ikra & Damodarpur, Tehsil Jamuria, District Paschim Bardhaman, West Bengal																		
f.	Total land	Existing plant area is 31.74 Hectares (78.44 Acres) and additional area required for expansion is 3.46 Hectares (8.56 Acres). Hence, total plant area after expansion will be 35.21 Hectares (87 Acres). Land Use: Industrial																		
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Complete land is under the possession of the company & completely industrial in nature.																		
h.	Existence of habitation & involvement of R&R, if any	<p>Plant Site: No habitation exists within the plant site.</p> <p>Study Area within 1 km</p> <table> <tr> <th>Habitation</th><th>Distance (km)</th><th>Direction</th></tr> <tr> <td>Damodarpur</td><td>NW</td><td>Adjacent</td></tr> <tr> <td>Sekpur</td><td>E</td><td>0.50</td></tr> <tr> <td>Akhalpur</td><td>WSW</td><td>0.59</td></tr> <tr> <td>Ikra</td><td>SE</td><td>0.88</td></tr> <tr> <td>Mandalpur</td><td>SW</td><td>1.0</td></tr> </table>	Habitation	Distance (km)	Direction	Damodarpur	NW	Adjacent	Sekpur	E	0.50	Akhalpur	WSW	0.59	Ikra	SE	0.88	Mandalpur	SW	1.0
Habitation	Distance (km)	Direction																		
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Sekpur	E	0.50																		
Akhalpur	WSW	0.59																		
Ikra	SE	0.88																		
Mandalpur	SW	1.0																		
i.	Elevation of the project site	110 m to 123 m above mean sea level. (As per survey contour map)																		
j.	Involvement of Forest land if any.	No Forest land is involved in the project site.																		
k.	Water body exists within the project site as well as study area	<p>Plant site: None</p> <p>Study area: Four water bodies fall within 10 km radius:</p> <table> <tr> <th>Water body</th><th>Distance (km)</th><th>Direction</th></tr> <tr> <td>Singaran Nala</td><td>~2.0</td><td>SE</td></tr> <tr> <td>Punta Khal</td><td>~6.5</td><td>WNW</td></tr> <tr> <td>Ajay River</td><td>~7.5</td><td>NE</td></tr> <tr> <td>Nonia Khal</td><td>~7.5</td><td>SW</td></tr> <tr> <td>Damodar River</td><td>~9.5</td><td>SSW</td></tr> </table>	Water body	Distance (km)	Direction	Singaran Nala	~2.0	SE	Punta Khal	~6.5	WNW	Ajay River	~7.5	NE	Nonia Khal	~7.5	SW	Damodar River	~9.5	SSW
Water body	Distance (km)	Direction																		
Singaran Nala	~2.0	SE																		
Punta Khal	~6.5	WNW																		
Ajay River	~7.5	NE																		
Nonia Khal	~7.5	SW																		
Damodar River	~9.5	SSW																		
l.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant	No National Parks, Wildlife Sanctuaries, Reserved Forests (RF)/Protected Forests (PF), Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. within 10 km radius.																		

S. No.	Particulars	Details
	reserve etc. if any within the study area	
m.	Project cost	Existing capital cost of project was Rs. 996.69 Crores. The capital cost of the proposed project is Rs. 860 Crores
n.	EMP cost	The capital cost for environment protection measures is proposed as Rs. 86.0 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 8.0 Crores.
o.	Employment opportunity	The employment generation from the proposed expansion is 2,730 (550 Regular & 2,180 Contractual).
p.	Water and Power requirement	<p>Existing water requirement is 4178 m³/day, which is obtained from Surface Water (River Damodar) through Damodar Valley Corporation (DVC) vide Memorandum of Association (MOU) dated 29.11.2021. The fresh makeup water requirement after expansion is estimated as 6730 m³/day that will be obtained from Surface Water (River Damodar) through Damodar Valley Corporation (DVC). Request application has been made to Damodar Valley Corporation (DVC) for additional water vide dated 22.12.2023.</p> <p>Existing power requirement of 84.3 MW is obtained from Damodar Valley Corporation (DVC) and Captive Power Plant. The power requirement after expansion is estimated as 135.6 MW, out of which, 102 MW will be obtained from Captive Power Plant and remaining will be obtained from Damodar Valley Corporation (DVC).</p>

Unit configuration and capacity

S. No.	Plant Equipment/ Facility	Existing facilities as per EC dated 8th April, 2021 and subsequent amended dated 16 th Jan, 2023		As per CTO		Proposed Unit		Total (Existing + Proposed)		Remarks
		Config	Prod (TPA)	Config	Prod (TPA)	Config	Prod (TPA)	Config	Prod (TPA)	
1.	Sponge Iron (DRI Plant)	1x 350 & 1x 600 TPD DRI Plant	318000 TPA	1x 350 & 1x 600 TPD DRI Plant	318000 TPA	2x 900 TPD	594000 TPA	(1x 350 + 1x 600 + 2x 900 TPD DRI Plant)	912000 TPA	Product - Sponge Iron
2.	MS Billets (Induction Furnace with LF & CCM)	6x20 Ton IF (Induction Furnace) & 1X30 Ton LF (Ladle Furnace)	372300 TPA	6x20 Ton IF (Induction Furnace) & 1X30 Ton LF (Ladle Furnace)	372300 TPA	2x20 Ton IF (Induction Furnace)	124200 TPA	{8x20 Ton IF (Induction Furnace) & 1x30 Ton LF (Ladle Furnace)}	496500 TPA	Product - MS Billets
3.	Rolling Mill	310 TPD & 625 TPD of rolled/bars/light structure	300000 TPA	310 TPD & 625 TPD of rolled/bars/light structure	300000 TPA	By adding new stand in existing premises	100000 TPA	1x1250 TPD of rolled/bars/light structure	400000 TPA	Product - Flat & Rolled Product
4.	Submerged Arc Furnace (SAF)	2x9 MVA of Fe-Mn/ Si-Mn	30000 TPA	2x9 MVA of Fe-Mn/ Si-Mn	30000 TPA	3x5.5 MVA (Fe-Mn/ Si-Mn/ Fe-Mn/ Si-Mn)	52,300 TPA	2X9 + 3x5.5 MVA of Fe-Mn/ Si-Mn/ Fe-Mn/ Si-Mn	82,300 TPA	Product - Ferro Manganese or
						Mn/Fe-Cr/Si-Cr		Mn/ Si-Mn/Fe-Cr/Si-Cr	Manganese or 56,200 TPA Silico Manganese or 56,200 TPA Ferro	Product - Silico manganese or Ferro Chrome or Silico Chrome or

S. No.	Plant Equipme nt/ Facility	Existing facilities as per EC dated 8th April, 2021 and subsequent amended dated 16 th Jan, 2023		As per CTO		Proposed Unit		Total (Existing + Proposed)		Remar ks
		Config	Prod (TPA)	Config	Prod (TPA)	Confi g	Prod (TPA)	Config	Prod (TPA)	
									Chrome or 48,100 Silico Chrome or 43,100 TPA Ferro Silicon or 82,300 TPA Pig Iron	Ferro Silicon or Pig Iron (Only product intercha ngeabili ty by changin g charge mix)
5.	Electric Arc Furnace (EAF)	---	---	---	---	2x10 MT	25000 TPA	2x10 MT	25000 TPA	Product - 25000 TPA Alloys Metal (To be used for as interme diary product)
6.	Waste Heat Recovery Boiler (WHRB)	35 TPH & 70 TPH	21 MW	35 TPH & 70 TPH		2 x 126 TPH	60 MW	(1x35 + 1x70 + 2x126 TPH)	81 MW	Product - Power
7.	Captive Power Plant	1X 32 TPH & 50 TPH FBC boiler	21 MW	1x 82 TPH FBC boiler	21 MW	---	---	82 TPH FBC boiler	21 MW	Product - Power
8.	Billet Caster	2X2 Strand	-	2x2 strand	2x2 Strand	2x2 Strand	---	4x2 Strand	-	-

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. Damodarpur Village is adjacent in NW, Sekpur Village (0.5 km, E), Akhalpur Village (0.59 km, WSW), Ikra Village (0.88 km, SE), Mandalpur Village (1 km, SW) exists along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
- v. As reported, there are several water bodies within the study area of the project site.. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- vi. Total water requirement is after expansion is estimated as 6730 m³/day that will be obtained from Surface Water (River Damodar) through Damodar Valley Corporation (DVC). PP shall obtain necessary permission from the Competent Authority in this regard.
- vii. Three tier Green Belt shall be developed in atleast 40% of the project area, as committed, in the monsoon season of 2024, of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. Additionally, thick plantation of 5000 trees in the nearby villages and schools, rainwater harvesting pond etc. in the ensuing monsoon. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- viii. 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. 16 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.

- ix. The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.
- x. PP shall comply with the recommendations as stated in the report from Jadavpur University, Kolkata regarding the construction activities of Railway Siding with wagon tippler.
- xi. PP shall prepare an action plan for improving the housekeeping of the plant premises and implement it strictly.
- xii. PP shall undertake strict measures to reduce the dust emissions and pollution level in the project premises.
- xiii. There are two patches of road around 40 m length and 20 m width inside the plant area which shall be concreted/paved within a time frame of 3 months as committed.
- xiv. The PP shall provide additional drinking water facility of approx. 18000 Liters per day in the adjacent Damodarpur village within three months.
- xv. PP shall install a permanent fencing around the temple, school within a timeframe of three months, as committed.
- xvi. PP shall improve the infrastructure in the adjacent village within a stipulated time period.

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.

I. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.

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

- c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- xix. Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
- xx. The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
- xxi. The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
- xxii. Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants.
- xxiii. 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/m³, 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.
- xxvii. CO sensors with alarms must be installed in the Plant at strategic locations.

II. 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.

III. 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.

IV. 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.

V. 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.

VI. 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.

VII. 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.

VIII. Environment Management

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

IX. 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. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

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

S. No.	Particulars	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Tentative Budget (In Lakhs)
		To be implemented in 1 st year		To be implemented in 2 nd Year		To be implemented in 3 rd Year		
A	INFRASTRUCTURE DEVELOPMENT FOR DRINKING WATER							
1	Village Jadudanga	Installation of Cold and Purified Drinking Water "Piau" with 2000 ltrs capacity	1 no	Installation of Submersible Pump for day-to-day requirement of water	2 no			51
2	Village Sekhpur	Installation of Cold and Purified Drinking Water "Piau" with 2000 ltrs capacity	1 no					35
3	Village Damodarpur	Provision a portable drinking water tank for drinking purpose	1 no					25
4	Village Bijpur, Mandalpur, Simultala			Installation of Submersible Pump for daya to day requirement of water	15 no			120
SUB-TOTAL (A)								231
B	SANITATION							
1	Village Damodarpur	Construction of Community toilet (3 closed toilets with 2 urinals)	2 no	Construction of Community toilet (3 closed toilets with 2 urinals) near Aath Para	1 no			15
2	Village Akhalpur	Construction of Community toilet (3 closed toilets with 2 urinals) near Muslimpara	1 no					5

S. No.	Particulars	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Tentative Budget (In Lakhs)
		To be implemented in 1 st year		To be implemented in 2 nd Year		To be implemented in 3 rd Year		
3	Village Mandalpur	Construction of Community toilet (3 closed toilets with 2 urinals)	1 no	Construction of Community toilet (3 closed toilets with 2 urinals)	1 no			10
4	Village Ikra			Construction of Community toilet (3 closed toilets with 2 urinals)	1 no			5
5	Village Shekhpur					Construction of Community toilet (3 closed toilets with 2 urinals)	1 no	5
6	Village Jadudanga					Construction of Community toilet (3 closed toilets with 2 urinals)	1 no	5
7	Village Bijpur			Construction of Community toilet (3 closed toilets with 2 urinals)	1 no			5
8	Village Benali					Construction of Community toilet (3 closed toilets with 2 urinals)	1 no	5
SUB-TOTAL (B)								55
C	EDUCATION							
1	Village Damodarpur, Sekhpur, Akhalpur, Simultala	Industrial skill development training for 15 students in Ramkrishna Mission	1 lot	Industrial skill development training for 15 students in Ramkrishna Mission	1 lot	Industrial skill development training for 15 students in Ramkrishna Mission	1 lot	135
2	Village Jamuria			Renovation of Vivekanand Library, Jamuria and	1 Lot			50

S. No.	Particulars	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Tentative Budget (In Lakhs)
		To be implemented in 1 st year		To be implemented in 2 nd Year		To be implemented in 3 rd Year		
				Donation of Books				
3	Village Mandalpur	Renovation of Mandalpur Primary School with drinking water & modern toilet facility	1 lot					30
4	Village Nandi			Renovation of Nandi High School School with drinking water & modern toilet facility		Installtion of CCTV along with computer and distribution of bench of students at Nandi High School	1 lot	45
5	Village Damodarpur			Community hall for educational & Social fuction	1 no			25
SUB-TOTAL (C)								285
D	ROADS & CROSS DRAIN							
1	Village Damodarpur	Repairing of internal roads through paver block at Mandalpur	500 mtr	Construction of Kancha drain to Pacca at Shiv Mandir Para	400 mtr	Constructi on of Kancha drain to Pacca at Primary School Para	400 mtr	91
2	Village Akhalpur			Repairing of internal roads through paver block	800 mtr			56
3	Village Sekhpur	Repairing of internal roads through paver block	300 mtr					21
4	Village Jadudanga					Repairing of internal roads through paver	500 mtr	35

S. No.	Particulars	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Tentative Budget (In Lakhs)
		To be implemented in 1 st year		To be implemented in 2 nd Year		To be implemented in 3 rd Year		
						block at Mandalpur		
5	Village Ikra					Repairing of internal roads through paver block	400 mtr	28
SUB-TOTAL (D)								231
E	ELECTRIFICATION INCLUDING SOLAR LIGHTS							
1	Village Damodarpur, Sekhpur, Akhalpur, Simultala, Jamuria, Mandalpur	Installation of highmast lights at Mistika School more, Jamuria village	1	Installation of highmast lights at Tinkona more of Damodarpur, Ikra & Sarthakpur	1			30
2		Distribution of 200 LED Light for Road	200 nos	Installation of solar streetlights	10 (in each village)	Installation of solar streetlights	10 (in each village)	60
SUB-TOTAL (E)								90
F	AVENUE PLANTATION INCLUDING PLANTATION IN COMMUNITY AREAS							
1	Village Damodarpur	Community plantation	3500 saplings	Community plantation	500 saplings	Community plantation	500 saplings	25
2	Village Simultala/ Shekhpur	Community plantation	3000 saplings	Community plantation	500 saplings	Community plantation	500 saplings	25
3	Village Ikra/Mondalpur	Community plantation along with plantation in Govt. Primary School	1000 saplings	Community plantation	1000 saplings	Community plantation	1000 saplings	20
4	Village Akhalpur	Community plantation	300 saplings	Community plantation	300 saplings	Community plantation	300 saplings	9
5	Jamuria Bazar	Community plantation	400 saplings	Community plantation	300 saplings	Community plantation	300 saplings	10
6	Damodarpur, Shekhpur, Mondalpur, Akhalpur, Jamuria	Water tanker for watering of new saplings	1 no	Water tanker for watering of new saplings	1no			48
7	Damodarpur, Shekhpur,	Environment Day Celebrations		Environment Day Celebrations		Environment Day		60

S. No.	Particulars	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Tentative Budget (In Lakhs)
		To be implemented in 1 st year		To be implemented in 2 nd Year		To be implemented in 3 rd Year		
	Mondalpur, Akhalpur, Jamuria					Celebrations		
SUB-TOTAL (F)								197
G	DEVELOPMENT OF HEALTH FACILITIES							
1	Village Damodarpur, Sekhpur, Simultala, Jadudanga, Mandalpur, Ikra	Provide an Ambulance type Mobile Medical Van for daily health checkup for surrounding villagers (Damodarpur, Sekhpur, Simultala)	1 no			Provide an Ambulance type Mobile Medical Van for daily health checkup for surrounding villagers (Jadudanga, Mandalpur, Ikra)	1 no	120
2	Village Akhalpur			Provision of Medical equipments in local health centers (X-Ray Machines, USG, ECG, Blood Test Kits etc).	As per requirements of local health centers			70
SUB-TOTAL (G)								190
H	SUSTAINABILITY							
1	Village Simultala, Damodarpur, Mandalpur			Provision of Self-Help Group (Trainings for Handicraft)				41
SUB-TOTAL (H)								41
VILLAGE ADOPTION PROGRAMME FOR TWO VILLAGES (VILLAGE DAMODARPUR & SIMULTALA) (I)								
1	Village Simultala, Damodarpur	Installation of overhead tank of capacity 20000 Litres for provision of drinking water in Village Damodarpur	1 no	Installation of overhead tank of capacity 20000 Litres for provision of drinking water in	1 no			40

S. No.	Particulars	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Physical activity and action plan	UOM	Tentative Budget (In Lakhs)
		To be implemented in 1 st year		To be implemented in 2 nd Year		To be implemented in 3 rd Year		
				Village Simultala				
2		Renovation of dilapidated houses & painting in Village Simultala & Damodarpur	1 no					80
3		Facilitation for children park in Village Damodarpur	1 no	Facilitation for children park in Village Simultala	1 no			30
4				Improvement of educational facilities by provision of small pre-primary schools in Village Simultala	1 no			30
5				Infrastructure facility for solar lighting & street lighting in Village Simultala		Infrastructure facility for solar lighting & street lighting in Village Damodarpur		20
6		Improvement of village roads in Village Simultala	1 no			Improvement of village roads in Village Damodarpur	1 no	80
TOTAL (A+B+C+D+E+F+G+H+I)								1600
