



File No: J-11011/507/2009-IA-II(IND-I)

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



Date 02/07/2024



To,

M/s. RADHA CASTING & METALIK (P) LTD.
Industrial area, Behind IFICO, Water Filter Plant, P.O. Marar, Dist- Ramgarh , RAMGARH,
JHARKHAND, , 829117
Email: radhacasting@gmail.com

Subject: Expansion proposal for enhancement of production of pig Iron from 15,000 To 30,000 TPA, M S Billet from 15,000 TPA to 3,00,000 TPA by Installation of Eight Nos. of Induction Furnace and Production of TMT Bar 1,80,000 TPA by installation of hot rolling mill and installation of 60,000 TPA slag grinding Unit for M/s Radha Casting & Metaliks Pvt. Limited, located at Village: Paiki, P.O.: Marar, District: Ramgarh, Jharkhand- Grant of Environmental Clearance

Sir/Madam,

M/s Radha Casting & Metaliks Pvt. Limited has made an online application vide Proposal No. IA/JH/IND/449916//2023 dated 02.04.2024 along with copy of EIA/EMP report, Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A1008JH5374690N
(ii) File No.	J-11011/507/2009-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)
(vi) Sector	Industrial Projects - 1 Expansion Proposal for Enhancement of production of Pig Iron from 15,000 to 30,000 TPA, MS Billet from 15,000 TPA to 3,00,000 TPA by installation of Eight Nos. of Induction Furnace and Production of TMT Bar 1,80,000 TPA by Installation of Hot Rolling Mill and Installation of 60,000 TPA Slag Grinding Unit within existing premises by M/s. Radha Casting & Metalik Private Limited at Vill:
(vii) Name of Project	

(viii) Name of Company/Organization
(ix) Location of Project (District, State)
(x) Issuing Authority
(xi) Applicability of General Conditions as per EIA Notification, 2006

Paiki, P.O.: Marar, Dist: Ramgarh, Jharkhand
RADHA CASTING & METALIK (P) LTD.
RAMGARH, JHARKHAND
MoEF&CC
No

3. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous & non-ferrous) under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

4. The instant Proposal was considered by the EAC in its 58th meeting held during 14-15th May 2024 wherein after detailed deliberations; the committee recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions. 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-II**.

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

7. The EAC, in its 58nd meeting held during 14 – 15th May 2024, inter-alia, deliberated the following:

i. The instant proposal is for enhancement in production of Pig Iron from 15,000 to 30,000 TPA, M S Billet From 15,000 TPA To 3,00,000 TPA by Installation of Eight Nos. of Induction Furnace and production of TMT Bar 1,80,000 TPA by installation of Hot Rolling Mill and Installation of 60,000 TPA Slag Grinding Unit.

ii. The existing project was accorded environmental clearance vide Ir.no. File no: J-11011/507/2009- IA- II(I) dated 23.12.2009. Consent to Operate for the existing unit was accorded by Jharkhand State Pollution Control Board vide Consent No. 17227158/2023/2163 Dt: 31.12.2023. The validity of CTO is up to 31.12.2024.

iii. 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.

iv. 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.

v. 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.

vi. 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.

vii. Total project area is 8.09 Ha and is converted for industrial purpose. Land is under the sole ownership of Project

Proponent. Plot No. 256/1865 for 7.0 Acres of Land acquired on 18.07.2006, Plot No. 256/1863, 256/1864 for 9.7 Acres & Plot No. 256/1866 for 3.3 Acres of Land acquired on 22.01.2008. No additional land acquired for the expansion.

viii. The project is falling under 'Severely Polluted Area (SPA)' as per the order of Hon'ble NGT 19.08.2019 in the O.A No. 1038/2018 having CEPI value 66.75. The EAC deliberated on the action plan as per CEPI guidelines submitted by the project proponent and is of the opinion that action plan shall be strictly implemented.

ix. Paiki (1 km, NNE) and Rauta (1 km, NNW) 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.

x. As reported, Damodar River is at a distance of 50 m in South direction, Rauta Nala at 200 meter in West of the project site along with several water bodies within the study area of the project site. As per the letter received from water resource department, Asansol, vide letter no. DD/ASN/MET/2022/400-02 dated 25.11.2022 it has been informed that the desired HFL of Damodar River at Ramgarh site, Jharkhand is 316.68 m on month of September 1976 at Lat 23°38'30" and Long. 85°30'47". This location is located at 2 Km from the project site. As per the present study, the elevation of Damodar river near the project site is 308mRL and the elevation of the plant site is 319 mRL to 322 mRL. The altitude difference between the river bed and plant site is approximately 14m to 18m. PP opined that a robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.

xi. The PP reported that existing water requirement is 24 m³/day which is obtained from Damodar River and Ground water (10 m³/day). The water requirement for the proposed project is estimated as 633 m³/day, which will be obtained from Damodar River & Ground water (10 m³/day). The EAC deliberated on the water requirement is of the opinion that PP shall obtain necessary permission from the Competent Authority in this regard.

xii. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and is of the opinion that stringent measures shall be undertaken to minimise the pollution levels.

xiii. The PP has submitted that existing green belt has been developed in 2.12 Ha. (5.25 acres) area which is about 26.25 % of the total project area of 8.09 Ha, (20.00 acres) with total sapling of 2000 Trees. Proposed greenbelt will be developed in 1.11 Ha. (2.75 acres) which is about 13.75 % of the total project area. Thus, total of 3.23 Ha. (8.0 acres) area (40% of total project area) will be developed as greenbelt. Total no. of 8000 saplings will be planted and nurtured in 3.23 Ha. in 5 years. 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 1 year.

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

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

xvi. The EAC noted that a notice was issued under section 5 of EPA 1986 issued vide letter dated 13.12.2018 regarding noncompliance of the Environmental conditions by MoEF&CC. In compliance to the letter the PP has submitted the action taken report vide their No RC MPL/ 128 I 18-19 dated 12.01.2019. Based on the action taken report verification visit has been carried out by regional officer, MoEF&CC, Ranchi vide File No. 103/257/09/EPE/8502 dated 11.10.2019. Further after the present site visit for issue of certified compliance report and submission of action taken report, M/s Radha Casting and Metaliks submitted a request letter to MoEF&CC for revocation of notice. Based on submission of compliance status of SCN on 12.10.2023, 20.01.2024 & Response Review report issued vide 103-257/09/EPE/56 dt: 22.01.2024 by RO, Ranchi, Action Closure report has been issued by MoEF&CC vide F. No. IA-J-11014/86/2023-IA-I Dt: 22.04.2024.

xvii. The EAC deliberated on the CCR obtained from IRO along with the ATR submitted on non-compliances and the review reports of IRO including the SCN issued by MoEF&CC and noted that based on submission of compliance status of SCN on 12.10.2023, 20.01.2024 & Response Review report issued dated 22.01.2024 by RO, Ranchi, Action Closure report has been issued by MoEF&CC vide F. No. IA-J-11014/86/2023-IA-I Dt: 22.04.2024. The EAC further advised PP to duly comply with the conditions of EC in future.

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

xix. 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.

xx. 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.

xxi. 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 58th meeting held during 14 – 15th 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.

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 Radha Casting & Metaliks Pvt. Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions (**Annexure-I**)

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

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

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

13. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance

Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

14. This issues with approval of the competent authority.

(Dr. R. B. Lal)

Scientist 'F'/Director

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Email-rb.lal@nic.in

Copy To

1. Secretary, Department of Environment, Government of Jharkhand, Secretariat, Ranchi.
2. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
3. The Principal Chief Conservator of Forests & Government of Jharkhand, Van Bhawan, P.O. Hinoo, Doranda, Ranchi-823002
4. The Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Bungalow No. A-2, Shyamali Colony, Ranchi – 834002
5. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. Chairman, Jharkhand State Pollution Control Board, CTI Colony, Sector 4, Birsa Nagar, Ranchi, Jharkhand 834004
7. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
8. District Collector, District Ramgarh, Jharkhand.
9. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
10. Guard File/Monitoring File/MoEFCC Website/Record File/Parivesh portal.

(Dr. R. B. Lal)

Scientist 'F'/Director

Annexure 1

Specific EC Conditions for (Metallurgical Industries (Ferrous And Non Ferrous))

1. Specific

S. No	EC Conditions
1.1	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
1.2	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
1.3	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.

S. No	EC Conditions
1.4	In pursuance to MoEF&CC OM's dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI shall be implemented as per the submitted plan.
1.5	Paiki (1 km, NNE) and Rauta (1 km, NNW) 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.
1.6	As reported, Damodar River is at a distance of 50 m in South direction, Rauta Nala at 200 meter in West of the project site along with 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.
1.7	Total water requirement is 633 m ³ /day, shall be obtained from Damodar River & Ground water (10 m ³ /day). PP shall obtain necessary permission from the Competent Authority in this regard.
1.8	Three tier Green Belt shall be developed in atleast 40% of the project area in a period of 1 year of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
1.9	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. 2.03 Crores (Existing + Proposed) shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
1.10	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.

Standard EC Conditions for (Metallurgical Industries (ferrous and non ferrous))

1. Statutory Compliance

S. No	EC Conditions
1.1	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

S. No	EC Conditions
1.2	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.2	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
2.3	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.4	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
2.5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
2.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
2.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
2.8	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
2.9	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.
2.10	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.

S. No	EC Conditions
2.11	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
2.12	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
2.13	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
2.14	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
2.15	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
2.16	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
2.17	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm ³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
2.18	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
2.19	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.
2.20	Low NO _x Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.

3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
3.2	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and

S. No	EC Conditions
	post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
3.3	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
3.4	Water meters shall be provided at the inlet to all unit processes in the steel plants.
3.5	The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
3.6	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
3.7	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
3.8	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
3.9	

4. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
4.2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

5. Energy Conservation Measures

S. No	EC Conditions
5.1	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
5.2	Restrict Gas flaring to < 1%.
5.3	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;

S. No	EC Conditions
5.4	Provide LED lights in their offices and residential areas.

6. Energy Conservation Measures In Case Of Reheating Furnace

S. No	EC Conditions
6.1	Practice hot charging of slabs and billets/blooms as far as possible.
6.2	Ensure installation of regenerative type burners on all reheating furnaces

7. Energy Conservation Measures In Case Of Blast Furnace

S. No	EC Conditions
7.1	Blast Furnaces shall be equipped with Top Recovery Turbine, dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.

8. Waste Management

S. No	EC Conditions
8.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
8.2	Kitchen waste shall be composted or converted to biogas for further use.
8.3	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
8.4	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
8.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

9. Green Belt

S. No	EC Conditions
9.1	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
9.2	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
9.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

10. Public Hearing And Human Health Issues

S. No	EC Conditions
10.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
10.2	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
10.3	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
10.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

11. Environment Management

S. No	EC Conditions
11.1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
11.2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

S. No	EC Conditions
11.3	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
11.4	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

12. Miscellaneous

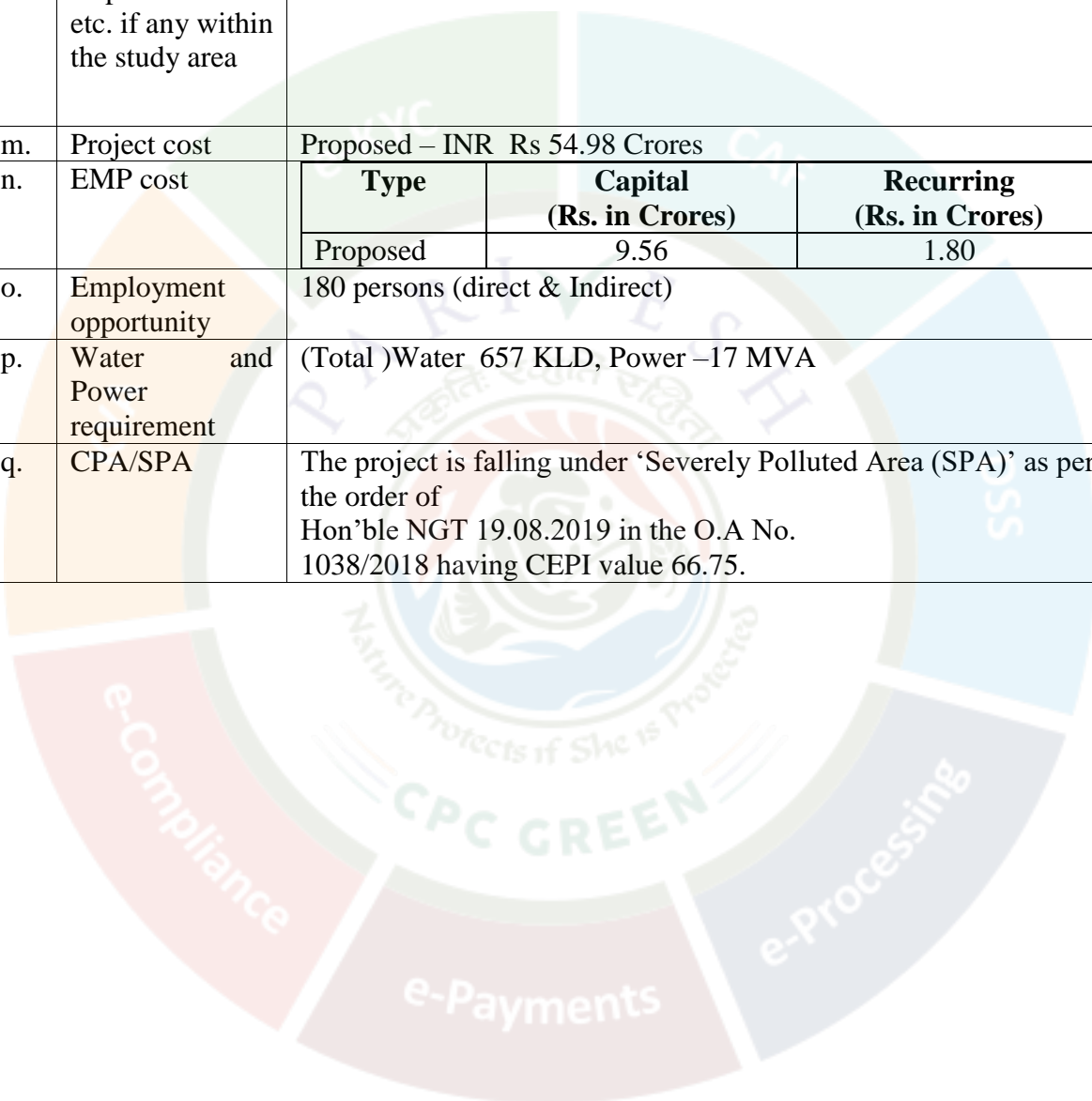
S. No	EC Conditions
12.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
12.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
12.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
12.4	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
12.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
12.6	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
12.7	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
12.8	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
12.9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.

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

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

S. No.	Particulars	Details									
a.	Terms of Reference for undertaking EIA study	14.01.2020									
b.	Period of baseline data collection	December 2019 to February 2020 and Oct. – Dec.'2023									
c.	Date of Public Consultation	16.12.2020									
d.	Action plan to address the PH issues	Public Hearing and need based activities detail proposed are attached as Annexure III .									
e.	Location of the project	Village: Paiki, P.O.: Marar, District: Ramgarh, Jharkhand									
f.	Total land	8.09 ha [Private]									
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Land is under the sole ownership of Project Proponent. Plot No. 256/1865 for 7.0 Acres of Land acquired on 18.07.2006, Plot No. 256/1863, 256/1864 for 9.7 Acres & Plot No. 256/1866 for 3.3 Acres of Land acquired on 22.01.2008.									
h.	Existence of habitation & involvement of R&R, if any	<p>Project Site: No habitation exists within the project site.</p> <p>Study Area</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Paiki</td> <td>1 Km</td> <td>NNE</td> </tr> <tr> <td>Rauta</td> <td>1 km</td> <td>NNW</td> </tr> </tbody> </table>	Habitation	Distance	Direction	Paiki	1 Km	NNE	Rauta	1 km	NNW
Habitation	Distance	Direction									
Paiki	1 Km	NNE									
Rauta	1 km	NNW									
i.	Elevation of the project site	319 to 322 M above mean sea level									
j.	Involvement of Forest land if any.	No involvement of Forest Land									
k.	Water body exists within the project site as well as study area	<p>Project Site: Nil</p> <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance & Direction</th> </tr> </thead> <tbody> <tr> <td>Damodar River</td> <td>50 m, S</td> </tr> <tr> <td>Routa Nala</td> <td>200 m, W</td> </tr> <tr> <td>Meramgarh Nala</td> <td>2.2 Km, E</td> </tr> </tbody> </table>	Water body	Distance & Direction	Damodar River	50 m, S	Routa Nala	200 m, W	Meramgarh Nala	2.2 Km, E	
Water body	Distance & Direction										
Damodar River	50 m, S										
Routa Nala	200 m, W										
Meramgarh Nala	2.2 Km, E										

S. No.	Particulars	Details		
l.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Nil		
m.	Project cost	Proposed – INR Rs 54.98 Crores		
n.	EMP cost	Type	Capital (Rs. in Crores)	Recurring (Rs. in Crores)
		Proposed	9.56	1.80
o.	Employment opportunity	180 persons (direct & Indirect)		
p.	Water and Power requirement	(Total)Water 657 KLD, Power –17 MVA		
q.	CPA/SPA	The project is falling under ‘Severely Polluted Area (SPA)’ as per the order of Hon’ble NGT 19.08.2019 in the O.A No. 1038/2018 having CEPI value 66.75.		



Unit configuration and capacity

Sl. No.	Plant Equipment/Facility	Existing facilities as per EC dated 23.12.2009						Proposed Units		Final (Existing + Proposed)		Remarks		
		Total(A+B)		Implemented (A)		Un-implemented (B)		As per CTO		Configuration	Capacity			
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity					
	Mini Blast Furnace (MBF)	1x23m ³	15000 TPA	1x23m ³	15000 TPA	--	--	1x23m ³	15000 TPA	1x23m ³	15000 TPA	2 x 23 m ³	30000 TPA	Volume of Existing MBF will be increased for additional 15000 TPA
	Induction Furnace (IF)	2x 6T	15000 TPA	2x 6T	15000 TPA	--	--	2x6T	14280 TPA	(2x 20 T +6x8T)	285000 TPA	2x 6T + 2x 20 T +6x8T)	3,00,000 TPA	-
	Submerged Arc Furnace	--	9,000 TPA	--	--	--	9,000 TPA	-	-	--	--	--	--	Withdrawn
	Cement Grinding Unit	--	18,000 TPA	--	--	--	18,000 TPA	-	-	--	--	--	--	Withdrawn
	Rolling Mill	--	18,000 TPA	--	--	--	18,000 TPA	-	-	1x600 TPD	1,80,000 TPA	1x600 TPD	1,80,000 TPA	

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

S. No.	Physical activity and action plan		Year of implementation (Budget in INR)			Total Expenditure (Rs. in Crores)
	Name of the Activity	Physical Targets	Dec.'24	Dec.'25	Dec.'26	
A.	Based on local needs as per outcome of Public Hearing					
1.	Employability	80% of the semiskilled and unskilled worker in the industry are from Marar village.	Continuing	Continuing	Continuing	NA
2.	Proper utilization of CSR fund.	The CSR fund is being utilized for different development purposes which include maintenance of the road, health camp, plantation activities. During the period of last 5 years 1.2 crores has been spent in response to social developmental activities. Further in response to public hearing fund has been allocated.	100 lakhs	150 Lakhs	150 Lakhs	Rs. 400 Lakhs
3.	Adoption of Pollution Control measure techniques to mitigate pollution.	Pollution control equipment for the existing unit has already installed and with the expansion proposal further installation and maintenance of Pollution control equipments will be installed.	900 Lakhs	NA	NA	900 Lakhs
4.	Time bound plantation programme in nearby village.	Plantation activities will be carried out along the road side of Marar Road connecting main road NH 33 (2 Km)	1 Lakhs	2 Lakhs	2 Lakhs	Rs. 5.0 Lakhs
5.	Proper care of nearby plants and trees.	Water tanker will be hired for watering of the existing trees in the area (Existing Avenue plantation)	1 Lakhs	1.5 Lakhs	1.5 Lakhs	Rs. 4.0 Lakhs

S. No.	Physical activity and action plan		Year of implementation (Budget in INR)			Total Expenditure (Rs. in Crores)
	Name of the Activity	Physical Targets	Dec.'24	Dec.'25	Dec.'26	
B.	Additional CER activity					
1.	Employment for local people	Priority will be given to local employment. Out of the regular employment of 308 no's 200 no's will be from local people based on their qualification and experience.				-----
2.	Skill Development	Support for ITI study of 10 no's of meritious students from Painki and Rauta Village. Selection will be made based on the recommendation of village committee.	3 Lakhs	3 Lakhs	3.5 Lakhs	Rs. 10.0 Lakhs
C.	Health Care					
1.	Health checkup camps	Organizing Specialized Health check-up camps alternatively for treatment of Diabetes, Eye & Gastro Intestinal Diseases on half-yearly basis for Painki and nearby village.	2 Lakhs	2.5 Lakhs	2.5 Lakhs	Rs. 8.0 Lakhs
2.	Regular Health Facility	There is an existing dispensary operating within the plant premises of M/S RCMPL. The health service will be extended to the local villagers.	8 Lakhs	7 Lakhs	9 Lakhs	Rs. 24.0 Lakhs
		M/S RCMPL is having an ambulance for providing emergency health service for the local people.	---	---	---	Rs. 12.0 Lakhs
D.	Education					
1.	Infrastructure development of educational institutions.	Support to primary school for developmental activities (Repair and maintenance of furniture, Boundary wall, Gate, Massionary work of class rooms, Toilet water supply etc as	3.0	2.5	2.5	Rs. 8.0 Lakhs

S. No.	Physical activity and action plan		Year of implementation (Budget in INR)			Total Expenditure (Rs. in Crores)
	Name of the Activity	Physical Targets	Dec.'24	Dec.'25	Dec.'26	
		per requirement of school.)				
E.	Other Peripheral Development activities					
1.	Construction and maintenance of road	Maintenance of the road connecting Paiki village to SH (2km) will be carry out.	15.0	15.0	15.0	Rs.45.0 Lakhs
2.	Supply of drinking water facility to nearby people and villager	Solar water supply system with pump and pipe supply in nearby village.	10.0	6.0	5.0	Rs. 21.0 Lakhs
3.	Supply of Electricity	Installation of Solar Street lights.	4.0	4.0	4.0	Rs. 12.0 Lakhs
4.	Plantation along the road	Plantation along the road side (from Plant site to Nh 33) 2km. The saplings will be provided with the tree guards.	3.0	2.5	2.5	Rs. 8.0 Lakhs
5.	Watering of the plants along the road.	One dedicated water tanker will be provided for watering of the trees along the road.	2.5	2.5	3.0	Rs. 8.0 Lakhs
F.	Pollution Control Measures					
1.	Pollution control measures to be implemented by the industry.	Installation and operation of pollution control measures to reduce the pollution load on the surrounding environment	NA	NA	NA	Included in EMP Cost