



File No: IA-J-11011/229/2022-IA-II(IND-I)

Government of India

Ministry of Environment, Forest and Climate Change

IA Division



Date 01/03/2025



To,

M/S BALMUKUND SPONGE & IRON PVT. LTD. (SPONGE DIVISION)
Near Vishwanath Nursing Home, Near Bajrang Chowk, Giridih, Jharkhand , GIRIDIH, JHARKHAND,
, 815301
Email: balmukundsponge2018@gmail.com

Subject: Enhancement of Sponge Iron Production from 90,000 TPA to 99,000 TPA (by increasing number of operating days of existing 3x100 TPD DRI Plant) along with installation of 12.5 MW Captive Power Plant (WHRB – 6 MW & AFBC – 6.5 MW) by M/s Balmukund Sponge & Iron Pvt. Ltd., located at Mauza: Manjhiladih, P.O. Gadi Srirampur, P.S. Giridih, Dist. Giridih, State- Jharkhand-Grant of Environmental Clearance-Reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/JH/IND1/469641/2024 dated 06/01/2025 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A1003JH5795069N
(ii) File No.	IA-J-11011/229/2022-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
(vii) Name of Project	Enhancement of Sponge Iron Production from 90,000 TPA to 99,000 TPA (by increasing number of operating days of the existing 3x100 TPD DRI Kilns) along with Installation of 12.5 MW Captive Power Plant (WHRB – 6 MW & AFBC – 6.5 MW) with the existing 3x100 TPD DRI Plant by M/s Balmukund Sponge and Iron Pvt. Ltd. (Sponge Division) At Mauza:- Manjhiladih, P.O. Gadi Srirampur, P.S. Giridih, Dist. Giridih, Jharkhand

(viii) Name of Company/Organization	M/S BALMUKUND SPONGE & IRON PVT. LTD. (SPONGE DIVISION)
(ix) Location of Project (District, State)	GIRIDIH, JHARKHAND
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

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

4. The instant proposal was considered in the 73rd EAC Meeting held during 30th - 31st January, 2025. 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 73rd EAC Meeting held during 30th - 31st January, 2025, inter-alia, deliberated the following:

i. The instant proposal is for enhancement of Sponge Iron Production from 90,000 TPA to 99,000 TPA (by increasing number of operating days of existing 3x100 TPD DRI Plant) along with installation of 12.5 MW Captive Power Plant (WHRB – 6 MW & AFBC – 6.5 MW) in the existing 3x100 TPD DRI Plant.

ii. The existing project was accorded Consent to Establish vide lr.no. T-5417 dated on 12.12.2000 from Bihar State Pollution Control Board (BSPCB) for installation of 100 TPD DRI kiln having production capacity of 30,000TPA Sponge Iron. The Company expanded its production from 30,000TPA to 90,000TPA Sponge Iron by installing additional 2x100TPD capacities DRI Kiln after obtaining CTE vide lr. N-120 dated on 14.02.2004 from Jharkhand State Pollution Control Board (JSPCB). As the units were installed prior to the EIA Notification 2006 and project cost was less than Rs.100 crores thereby EIA Notification 1994 was not applicable, hence no Environmental Clearance was obtained for the existing units. Consent to Operate for the existing unit was accorded by Jharkhand State Pollution Control Board vide lr. no. JSPCB/HO/RNC/CTO-9616607/2021/719 dated 27.05.2021. The validity of CTO is up to 30.09.2022.

iii. PP has submitted the following Chronology of Environment Clearance application:

(a) The plant was established on the basis of CTE and CTO from the State Pollution Control Board prior to EIA notification 14.09.2006.

(b) However, as per one of the CTO conditions dated 27.05.2021, PP were instructed to install a power plant (after obtaining EC and CTE). CTO dated 27.05.2021 is submitted.

(c) In order to obtain Environment Clearance for installation of power plant, we had applied for TOR from SEAC Jharkhand on 15.12.2020. The State Expert Appraisal Committee (SEAC) in 92nd meeting which concluded on 23rd October, 2021 deliberated that “The project proposal is expansion of 300 TPD sponge iron plant. Hence, this is a Category ‘A’ project as per EIA notification, 2006. Accordingly, this project was not considered by the SEAC and recommended for delisting.” Minutes of the 92nd meeting of SEAC, Jharkhand and Minutes of 93rd meeting of SEIAA, Jharkhand are submitted.

(d) Thereafter, PP applied a fresh application vide proposal no. IA/JH/THE/236211/2021 dated 28.10.2021 for grant of ToR in thermal power sector. The EAC (Thermal) in its 21st Meeting dated 22.02.2022 opined that “the project is an integrated project and project shall be considered as an expansion case of the 300 TPD sponge iron plant, therefore PP should obtain Environmental Clearance for integrated project from Industry-1 sector of MoEF&CC”. Minutes of meeting is submitted.

(e) The Project was then applied to Industry-1 Sector with proposal No. IA/JH/IND/281861/2022 dated 02.08.2022 for grant of TOR/Environmental Clearance for expansion of Sponge Iron unit from 90000 TPA to 99000 TPA and Installation of 12.5 MW Captive Power Plant. The ToR for the project was granted on 13.09.2022 and Public hearing was conducted on 29.04.2023. The Final EIA and EC application was applied on 17.04.2024 for the same proposal.

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. PP submitted that the total land area is 3.55 Ha. (8.77 Acre) [Private: land]. The plant area is under the possession of the project proponent. No additional land is required for the project.

ix. Chatro Village is at a distance of 0.27 km in East direction, Sirsia PF is at a distance of 0.70 km in South direction, Mahuatanr PF is at a distance of 0.34 km in South direction along with other sensitive areas within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.

x. Usri River is at a distance of 1.25 km in the East along with other water bodies within the study area of the project site. The EAC 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 existing water requirement is 80 m³/day, which is obtained from groundwater. The water requirement for the proposed project is estimated as 313 m³/day which will also be met from the groundwater. PP reported that the company has recently obtained permission from DVRRC, Ranchi for withdrawal of surface water from Usri River which is 1.25km in East Direction from the project site on 04.09.2024. The laying of Pipeline for Surface water will be completed in two years. Consequent to laying of pipeline, groundwater will not be used. A detailed report on proposed intake well details & transportation route, Pipe route and road layout with timelines is submitted. The EAC deliberated on the water requirement is of the opinion that PP shall obtain necessary permission from the Competent Authority in this regard. The project proponent shall ensure that the dedicated water pipeline from the Usri River intake point to the project site reservoir is laid and made operational before the commencement of production in the Sponge Iron Plant and Power Plant. The proponent shall obtain all necessary statutory approvals from relevant government departments within the stipulated timeline and complete the pipeline laying process as per the commitments made. Progress updates, including permissions, surveys, and construction status, shall be included in the half-yearly compliance reports submitted to the Ministry.

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

xiii. It is reported that there are 17 numbers of Schedule – I species (Herpestes edwardsi, Hystrix indica, Manis crassicaudata, Python molurus, Varanus bengalensis, Pavo cristatus, and Gyps bengalensis. Felis chaus, Lutra lutra, Cervus unicolor, Canis aureus, Hyena hyaena, Vulpus benghalensis, Manis crassicaudata. Reptiles like Python molurus, Naja naja & Varanus bengalensis found within the study area. Wildlife conservation plan is prepared and is approved by

office of the Principal Chief Conservator of Forests, Wildlife & Chief Wildlife Warden Jharkhand. The EAC opined that PP shall strictly implement the recommendations that will be made in the approved plan in consultation with the State Forest Department.

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 PP has submitted that they have already developed a greenbelt on 33% of total plant area (i.e. 1.172Ha out of 3.55Ha) by planting 3,223 number of trees (maintaining 2500 trees/ha tree density), considering survival rate of 80%. The EAC deliberated on the greenbelt plan shall be maintained as per CPCB norms.

xvi. The EAC reviewed the certified compliance report from the RO SPCB and found it satisfactory.

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

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 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 Balmukund Sponge & Iron Pvt. Ltd. (BSIPL) (Sponge Division)** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions (**Annexure-I**). The PP shall ensure compliance of OM dated 14-01-2025 regarding streamlining the implementation of GSR 702 and GSR 703 dated 12-11-2024 through which projects requiring prior EC were exempted from requirement of CTE.

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

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

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

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

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

13. This issues with approval of the competent authority.

(Dinesh Runiwal)
Scientist 'F'/Director
Tel: 011-20819346
Email-d.runiwal@gov.in

Copy To

1. Secretary, Department of Environment, Government of Jharkhand, Secretariat, Ranchi.
2. Regional Officer, Integrated Regional Office, Ministry of Environment and Forest, Bungalow No. A-2, Shyamali Colony, Ranchi-834002.
3. PCCF & Chief Wildlife Warden, Govt. of Jharkahnd, P.O. Doranda, Van Bhawan Ranchi- 834002
4. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
5. Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. Chairman, Jharkhand State Pollution Control Board, CTI Colony, Sector 4, Birsa Nagar, Ranchi, Jharkhand 834004
7. District Collector, **Giridih** District, Jharkhand.

(Dinesh Runiwal)
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 carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
1.4	Chatro Village is at a distance of 0.27 km in East direction, Sirsia PF is at a distance of 0.70 km in

S. No	EC Conditions
	South direction, Mahuatnur PF is at a distance of 0.34 km in South direction along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme. PP shall also commission adequate number of mobile truck mounted Fog/ Mist type of water sprinklers in the surrounding villages/ schools also on a periodic basis.
1.5	Usri River is at a distance of 1.25 km in the East along with other water bodies within the study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
1.6	The existing water requirement is 80 m3/day, which is obtained from groundwater. The water requirement for the proposed project is estimated as 313 m3/day which will also be met from the groundwater. PP shall obtain necessary permission from the Competent Authority in this regard as applicable. As committed, the company shall withdraw surface water from Usri River. Consequent to laying of pipeline, groundwater shall not be used. PP shall obtain necessary permission from the Competent Authority in this regard. The project proponent shall ensure that the dedicated water pipeline from the Usri River intake point to the project site reservoir is laid and made operational before the commencement of production in the Sponge Iron Plant and Power Plant. The proponent shall obtain all necessary statutory approvals from relevant government departments within the stipulated timeline and complete the pipeline laying process as per the commitments made. Progress updates, including permissions, surveys, and construction status, shall be included in the half-yearly compliance reports submitted to the Ministry.
1.7	Three tier Green Belt shall be maintained in atleast 33% of the project area, as committed, 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.
1.8	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked 33% or 40% greenbelt area, as the case may be, as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriILiFE portal at (https://merilife.nic.in)
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. 1.09 Crores and Recurring of Rs. 0.015 Crores 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 in consultation with State Administration.
1.11	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be

S. No	EC Conditions
	furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
1.12	PP shall install CO sensors with alarm at strategic locations in the Plant.
1.13	The PP shall ensure compliance of OM dated 14-01-2025 regarding streamlining the implementation of GSR 702 and GSR 703 dated 12-11-2024 through which projects requiring prior EC were exempted from requirement of CTE.

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.
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 shall be provided as per CPCB guidelines for manual monitoring

S. No	EC Conditions
	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	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
2.10	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
2.11	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
2.12	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
2.13	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.
2.14	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
2.15	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.
2.16	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.
2.17	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.

S. No	EC Conditions
2.18	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.
2.19	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

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 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	Air Cooled condensers shall be used in the captive power plant.

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.
4.3	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

5. Energy Conservation Measures

S. No	EC Conditions
5.1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
5.2	Provide LED lights in their offices and residential areas.

6. Energy Conservation Measures In Case Of Dri Kilns (Sponge Iron)

S. No	EC Conditions
6.1	The project proponent shall provide waste heat recovery system on the DRI Kilns.
6.2	The dolochar generated shall be used for power generation.
6.3	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.
6.4	The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

7. Waste Management

S. No	EC Conditions
7.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
7.2	Kitchen waste shall be composted or converted to biogas for further use.
7.3	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.
7.4	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use

S. No	EC Conditions
	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.
7.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
7.6	Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.

8. Green Belt

S. No	EC Conditions
8.1	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.
8.2	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.
8.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

9. Public Hearing And Human Health Issues

S. No	EC Conditions
9.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
9.2	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.
9.3	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.

S. No	EC Conditions
9.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

10. Environment Management

S. No	EC Conditions
10.1	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.
10.2	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.
10.3	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.
10.4	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.

11. Miscellaneous

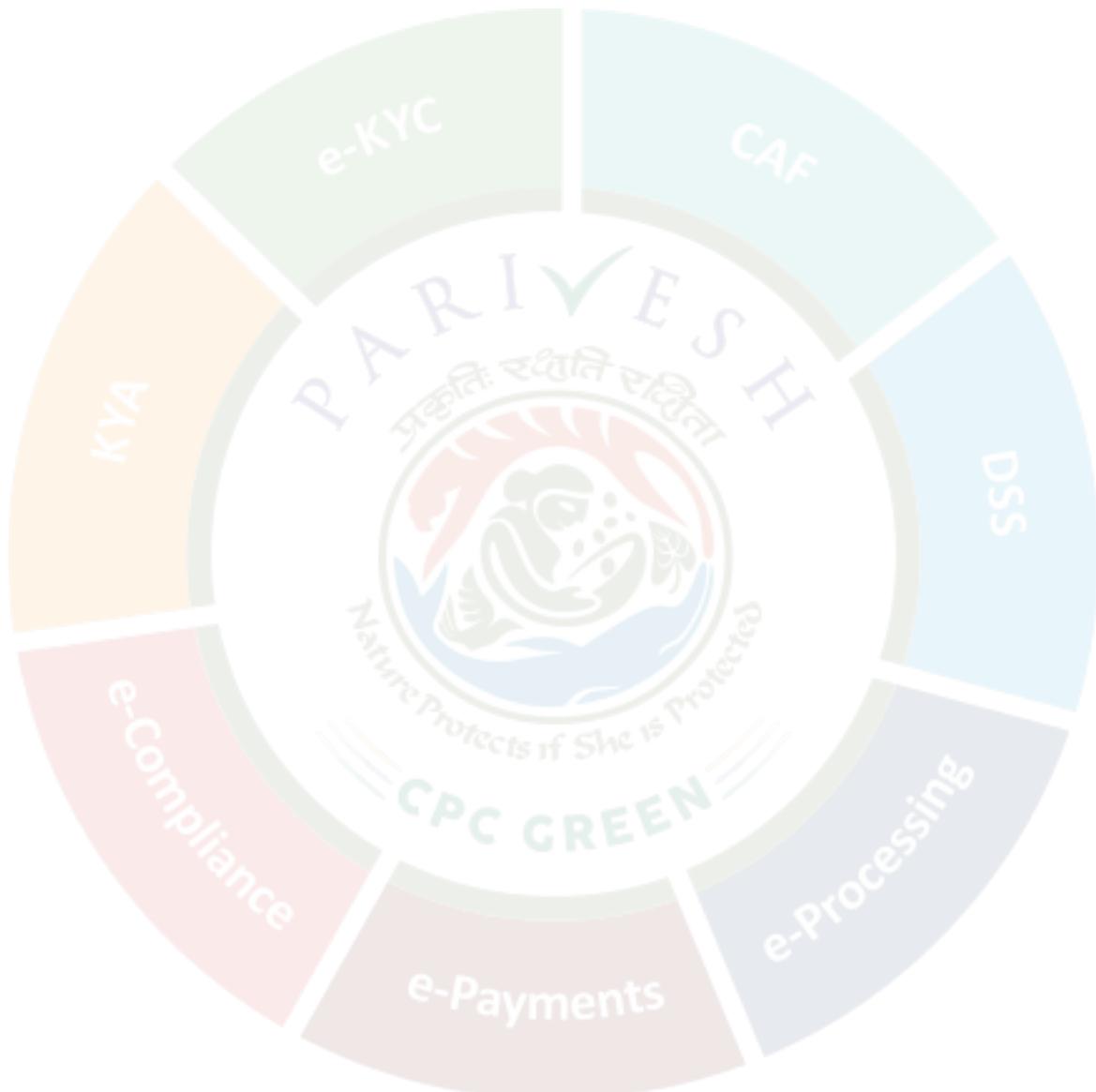
S. No	EC Conditions
11.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
11.2	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.
11.3	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.
11.4	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

S. No	EC Conditions
	company.
11.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
11.6	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.
11.7	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.
11.8	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.
11.9	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.
11.10	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
11.11	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.
11.12	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).
11.13	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.
11.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
11.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
11.16	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.
11.17	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period

S. No	EC Conditions
	of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Additional EC Conditions

NA



S.No	Particulars	Details									
a.	Terms of Reference for undertaking EIA study	13.09.2022									
b.	Period of baseline data collection	1 st March 2022 to 31 st May 2022									
c.	Date of Public Consultation	29.04.2023									
d.	Action plan to address the PH issues	Public Hearing and need based activities detail proposed are attached as Annexure IV .									
e.	Location of the project	Located at Mauza: Manjhiladih, P.O. Gadi Srirampur, P.S. Giridih, Dist. Giridih, State-Jharkhand									
f.	Total land	3.55 Ha. (8.77 Acre) [Private: land]									
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	The proposed enhancement and installation of Captive Power Plant will be carried out within the existing plant area of 3.55Ha. No Additional land will be required for the proposed expansion. And the plant area is under the possession of the project proponent.									
h.	Existence of habitation & involvement of R&R, if any	<p>Project Site: Nil</p> <p>Study Area:</p> <table border="1"> <thead> <tr> <th>Nearest Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Chatro Village</td> <td>0.27km</td> <td>East</td> </tr> </tbody> </table>	Nearest Habitation	Distance	Direction	Chatro Village	0.27km	East			
Nearest Habitation	Distance	Direction									
Chatro Village	0.27km	East									
i.	Elevation of the project site	296 meters above mean sea level									
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>Project Site – No water body present within the plant area</p> <p>Study Area</p> <table border="1"> <thead> <tr> <th>Water-body</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Usri River</td> <td>1.25</td> <td>East</td> </tr> <tr> <td>Barakar River</td> <td>7.05</td> <td>SW</td> </tr> </tbody> </table>	Water-body	Distance	Direction	Usri River	1.25	East	Barakar River	7.05	SW
Water-body	Distance	Direction									
Usri River	1.25	East									
Barakar River	7.05	SW									
l.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere	<p>ESZ/ESA in the Study Area - None</p> <p>List of Reserve Forest & Protected Forest:</p> <ul style="list-style-type: none"> • Sirsia PF is at a distance of 0.70 km in S direction. • Mahuatnra PF is at a distance of 0.34 km in S direction. 									

S.No	Particulars	Details						
	Reserve / tiger reserve / elephant reserve etc. if any within the study area	<ul style="list-style-type: none"> • Kalhamania PF is at a distance of 2.37 km in SW direction. 						
m.	Project cost	The capital cost of the proposed project is Rs. 87.76 Crs.						
n.	EMP cost	<table border="1"> <thead> <tr> <th>EMP</th><th>Capital (Rs. in Crores)</th><th>Recurring (Rs. in Crores)</th></tr> </thead> <tbody> <tr> <td></td><td>4.055 Crores</td><td>0.4253 Crores</td></tr> </tbody> </table>	EMP	Capital (Rs. in Crores)	Recurring (Rs. in Crores)		4.055 Crores	0.4253 Crores
EMP	Capital (Rs. in Crores)	Recurring (Rs. in Crores)						
	4.055 Crores	0.4253 Crores						
o.	Employment opportunity	The employment generation from the proposed expansion is 40						
p.	Water and Power requirement	Total water requirement for the project after expansion is 393 m ³ /day and total power requirement is 2.5 MW						
q.	CPA/SPA	The plant site is not located in CPA/SPA						



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

Plant equipment/ Facility	Existing units as per Valid CTE dated 12.12.2000 & 14.02.2004		Proposed		Final (Existing + Proposed)	
	Config.	Capacity TPA	Config.	Capacity TPA	Config.	Capacity TPA
Sponge Iron	3x100 TPD DRI Kiln (operating days 300)	90,000	Capacity enhancement of 3x100 TPD DRI Kiln by increasing the number of operating days to 330	Production increased by 9,000	3x100 TPD DRI Kiln (operating days 330)	99,000
WHRB Boiler	--	--	3 x 10 TPH (operating days 330)	6 MWh	3 x 10 TPH (operating days 330)	6 MWh
AFBC Boiler	--	--	1x 45 TPH (operating days 365)	6.5 MWh	1x 45 TPH (operating days 365)	6.5 MWh

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

Sl. No.	Activities	Year of Implementation (Budget in INR)		Total Expenditure (Rs.)
		1st Year	2nd Year	
1.	Renovation of existing water tower at Purni Petaria village.	5.0 Lakhs	--	5.0 Lakhs
2	Pond Renovation of village Mahutandh and Gadi Srirampur.	5.0 Lakhs	5.0 Lakhs	10.0 Lakhs
3.	2 No. of Ambulance with life supporting facilities i.e. Oxygen supply unit with necessary accessories and Nebulizer along with stretchers for the patient will be provided for villagers of Gadi shri Rampur and Mahuatandh Villages.	Rs. 12.0 Lakhs (Provision of 1 No. of Ambulance equipped with necessary accessories)	Rs. 12.0 Lakhs (Provision of 1 No. of Ambulance equipped with necessary accessories)	24.0 Lakhs
4.	Installation of 2 no. of water cooler with RO purification system at temple and village Panchayat of Chatro village.	10.0 Lakhs	--	10.0 Lakhs
5.	Renovation of Gov. Middle School of Gadi Sri Rampur	15.0 Lakhs	--	15.0 Lakhs
6.	Adoption of Village Manjhiladih			
	(a) Providing 2 No. of water cooler water purification unit at Hanuman mandir and UPS school of Manjhiladih.	2.0 Lakhs	2.0 Lakhs	4.0 Lakhs
	(b) Maintenance of Drainage System of the village	5.0 Lakhs	5.0 Lakhs	10.0 Lakhs
	(c) Renovation of UPS School of Manjhiladih village	6.0 Lakhs	7.0 Lakhs	13.0 Lakhs

Sl. No.	Activities	Year of Implementation (Budget in INR)		Total Expenditure (Rs.)
		1 st Year	2 nd Year	
	with Providing books, Computer set and relevant accessories to school			
(d)	Installation of 50 Solar Street Lights	4.0 Lakhs	4.0 Lakhs	8.0 Lakhs
(e)	Pond Renovation	5.0 Lakhs	5.0 Lakhs	10.0 Lakhs
	Total	69.0 Lakhs	40.0 Lakhs	109.0 Lakhs

