



File No: IA-J-11011/434/2023-IA-II(IND-I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date **01/03/2025**



To,

M/s. Greater Ferromet (Division Of Sociedade De Fomento Industrial Pvt. Ltd.
Margao Goa, Vila Flores, Da Silva Erasmo Carvalho Street
Near Hotel La Flor, Margao, SOUTH GOA, GOA, 403601
Email : sridevimauli@fomento.co

Subject: Enhancement of Iron Ore Wet Beneficiation Plant from 0.64 Million TPA (0.914 Million TPA Throughput) to 0.674 Million TPA (1.0 Million TPA Throughput) through modernization by M/s Greater Ferromet (Division Of Sociedade De Fomento Industrial Private Limited), located at Village Santona, Taluka Sanguem, District South Goa, Goa- Grant of Environmental Clearance-Reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/GA/IND1/514061/2024 dated 16/01/2025 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.	EC24B0901GA5147529N
(ii) File No.	IA-J-11011/434/2023-IA-II(IND-I)
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	2(b) Mineral beneficiation
(vi) Sector	Industrial Projects - 1 Enhancement of Iron Ore Wet Beneficiation Plant from 0.64 Million TPA (0.914 Million TPA Throughput) to 0.674 Million TPA (1.0 Million TPA Throughput) through modernization at Village Santona, Sanguem Taluka, South Goa District, Goa by M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited).
(vii) Name of Project	SOCIEDADE DE FOMENTO INDUSTRIAL PRIVATE LIMITED
(viii) Name of Company/Organization	SOUTH GOA, GOA
(ix) Location of Project (District, State)	

3. The proposed project activity is listed at schedule no. 2(b) Mineral Beneficiation under Category “B” of the schedule of the EIA Notification, 2006 and attracts general condition due to the Bhagwan Mahaveer Wildlife Sanctuary and National Park located at 1.011 km and therefore being appraised at Central Level.

4. The instant proposal was considered in the 73rd meeting of the EAC for Industry-I sector held on 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 enhancement of Iron Ore Wet Beneficiation Plant from 0.64 Million TPA (0.914 Million TPA Throughput) to 0.674 Million TPA (1.0 Million TPA Throughput) through modernization.

ii. The PP reported that The Beneficiation Plant is operating since 1985 on the basis of NOC obtained from Office of the Village Panchayat, Sanvordem, Goa and Directorate of Health Services, Environment & Pollution Control Wing, Govt. of Goa, Daman & Diu. The said plant doesn't fall under the purview of EIA Notification, 1994. After thorough scrutiny and as directed by the Goa Pollution Control Board, the company filed an application for Consent to Operate on 05th March, 1997 and subsequently obtained its first CTO on 31 July, 2000. Thereafter, since 2000 to 2012, the plant was operating on Valid CTO without change in production capacity. After 2012, the plant has not been in operation due to unavailability of raw material, as the Mining operations in Goa were stopped in 2012 pursuant to Justice Shah Commission report, followed by Orders by Govt. of Goa, MoEF&CC and judgement passed by Hon'ble Supreme Court in the matter of 435 Of 2012. Since September 2022, the Goa State Govt., has initiated the process fore-auctioning the mining blocks for grant of Mining Lease, pursuant to the Hon'ble Supreme Court's Judgement. After the availability of raw material, the plant will commence its operations on the basis of Consent to Operate obtained from Goa State Pollution Control Board, vide its letter no. No. 12/2022-PCB/1253953/R0009656 dated 03.03.2023 for a production capacity of 53,333 tonnes/month (200 TPH Throughput) of Iron Ore, having its valid upto 22.07.2027.

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. The PP submitted that total area of the project is 15.77 ha (Private Land). The land has been acquired and is in the

possession of the company.

viii. Devnamol Village is t 0.8 km in SE along with other sensitive areas such as School, Reserved Forest etc. 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.

ix. Kalay river is reported at 0.115 km in East direction. PP has reported that Letter for obtaining NOC from Water Resource Department, Alto-Porvorim, Goa has been submitted on 09.01.2024. Also, there is a water body adjacent to project along with other water bodies present within the study area of the project site. The EAC opined that PP shall comply with the direction of WRD and also 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.

x. The EAC noted that Bhagwan Mahavir Wildlife Sanctuary & National Park is at a distance of 1.011 km in East and its ESZ at a distance of 11.0 meters in East Direction of the project site and it has been notified by MoEF&CC Gazette Notification No. S.O.221(E), dated 23.01.2015. Also there is Netravali Wildlife Sanctuary at a distance of 7.26 km in SE Direction and its has been notified by MoEF&CC Gazette Notification No. S.O.555(E), dated 17.02.2015. PP has submitted the location Map showing distance of the aforesaid Wildlife Sanctuary and National Park which has been authenticated by the Dy. Conservator of Forests Working Plan Division "Goa Van Bhawan" Altinho Panaji Goa Vide letter No: DCF(WP)/Tech/Digi/Vol-I/75/2023-24/822 dated 16.11.2023.

xi. The water requirement for the proposed project is estimated as 12139 m³/day, out of which 1180 m³/day of fresh water requirement will be obtained from the pipeline of nearby mining pit belonging to sister concern, registered with Water Resources Department, Goa. The EAC deliberated on the water requirement is of the opinion that PP shall obtain necessary permission from the Competent Authority.

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 there are 49 Schedule-I Specie as per the Wildlife (Protection) Amendment Act, 2022 conservation status. List of Schedule-I Species found in 10 km radius of plant site duly authenticated by the Dy. Conservator of South Goa Division, Goa vide letter No. 6/FCA/F&F/DCFS/TECH/2023-24/1701, dated 13.02.2024. The Wildlife Conservation Plan has been prepared and authenticated by the Astt. Conservator of Forest, LC & CWLW, vide letter no. CWLW-81-Mining Oper-FD-2023-24/3208, dated 30.10.2024. 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 submitted that out of the total plant area of 15.77 ha, 5.0 ha (i.e., 31.71% plant area) area has already been developed under greenbelt / plantation with 9000 trees belonging to different species are present in the plant site. After the proposed enhancement project, the total area under greenbelt will be 5.22 Ha. (33.10%) and density will be maintained as @2500 saplings/ha with total of 13,050 (Existing: 9000 + Additional: 4050) tree saplings. In addition to this, company has also proposed to develop additional 170-meter (0.17 ha area with 425 additional trees) stretch greenbelt on the eastern side of the plant boundary. The EAC deliberated on the greenbelt layout plan and is of the opinion that greenbelt shall be completed in a period of 1 year.

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

xvii. The EAC deliberated on the certified compliance report of RO, SPCB and found it satisfactory.

xviii. The EAC also deliberated on the written submission of 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 Greater Ferromet (Division Of Sociedade De Fomento Industrial Private Limited)** 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 Goa, Panaji.
2. Chief Wildlife Warden, Government of Goa, Panaji.
3. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore – 560034

4. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD- The Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
5. Chairman, Goa State Pollution Control Board, Dempo Tower, EDC Plaza, 1st Floor, Panaji, Goa- 403 001
6. Member Secretary, Central Ground Water Authority, A2, W- 3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
7. District Collector, South Goa , Govt. of Goa.
8. Monitoring File/Guard File/ Record File.
9. MoEF&CC Website

(Dinesh Runiwal)
Scientist 'F'/Director

Annexure 1

Specific EC Conditions for (Mineral Beneficiation)

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	Devnamol Village is at 0.8 km in SE along with other sensitive areas such as School, Reserved Forest etc. 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.
1.5	Kalay river is reported at 0.115 km in East direction. Also, there is a water body adjacent to project along with other water bodies present within the study area of the project site. There are water bodies reported within the study area of the project site. PP shall comply with the direction of WRD. Also, 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	Bhagwan Mahavir Wildlife Sanctuary & National Park is at a distance of 1.011 km in East and its ESZ at a distance of 11.0 meters in East Direction of the project site. Also there is Netravali Wildlife Sanctuary at a distance of 7.26 km in SE Direction. PP shall undertake stringent measures to mitigate the impacts of the project activities on these protected areas.

S. No	EC Conditions
1.7	The water requirement for the proposed project is estimated as 12139 m3/day, out of which 1180 m3/day of fresh water requirement will be obtained from the pipeline of nearby mining pit belonging to sister concern, registered with Water Resources Department, Goa. PP shall obtain necessary permission from the Competent Authority.
1.8	Three tier Green Belt shall be developed in atleast 33% of the project area with native species prevailing in the Western Ghats region (to the extent possible), 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 the concerned Regional Office of the MoEF&CC.
1.9	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 MeriLiFE portal at (https://merilife.nic.in)
1.10	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. 0.57 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC. PP shall also explore to undertake additional activities duly keeping in view the location of the project in the eco-sensitive western ghats region
1.11	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 the State Administration.
1.12	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
1.13	PP shall adopt and implement Tailings management and mitigation measures, as per the standard guidance of CPCB/ SPCB.
1.14	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 (Mineral beneficiation)

1. Statutory Compliance

S. No	EC Conditions
1.1	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of

S. No	EC Conditions
	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 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 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.

S. No	EC Conditions
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 ACGIH document 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.

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 recognised 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 recognised 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.

S. No	EC Conditions
3.4	Water meters shall be provided at the inlet to all unit processes in the plant.
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	Tailing management plan shall be implemented as included in EIA report.
3.10	Tailings from Iron Ore beneficiation plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.

4. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	Noise level survey shall be carried as per the prescribed guidelines 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	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. Public Hearing And Human Health Issues

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

S. No	EC Conditions
6.2	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 of Factory Act.
6.3	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.
6.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

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 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.

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

S. No	EC Conditions
	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. Environment Management

S. No	EC Conditions
9.1	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.
9.2	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.
9.3	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.
9.4	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.

10. Miscellaneous

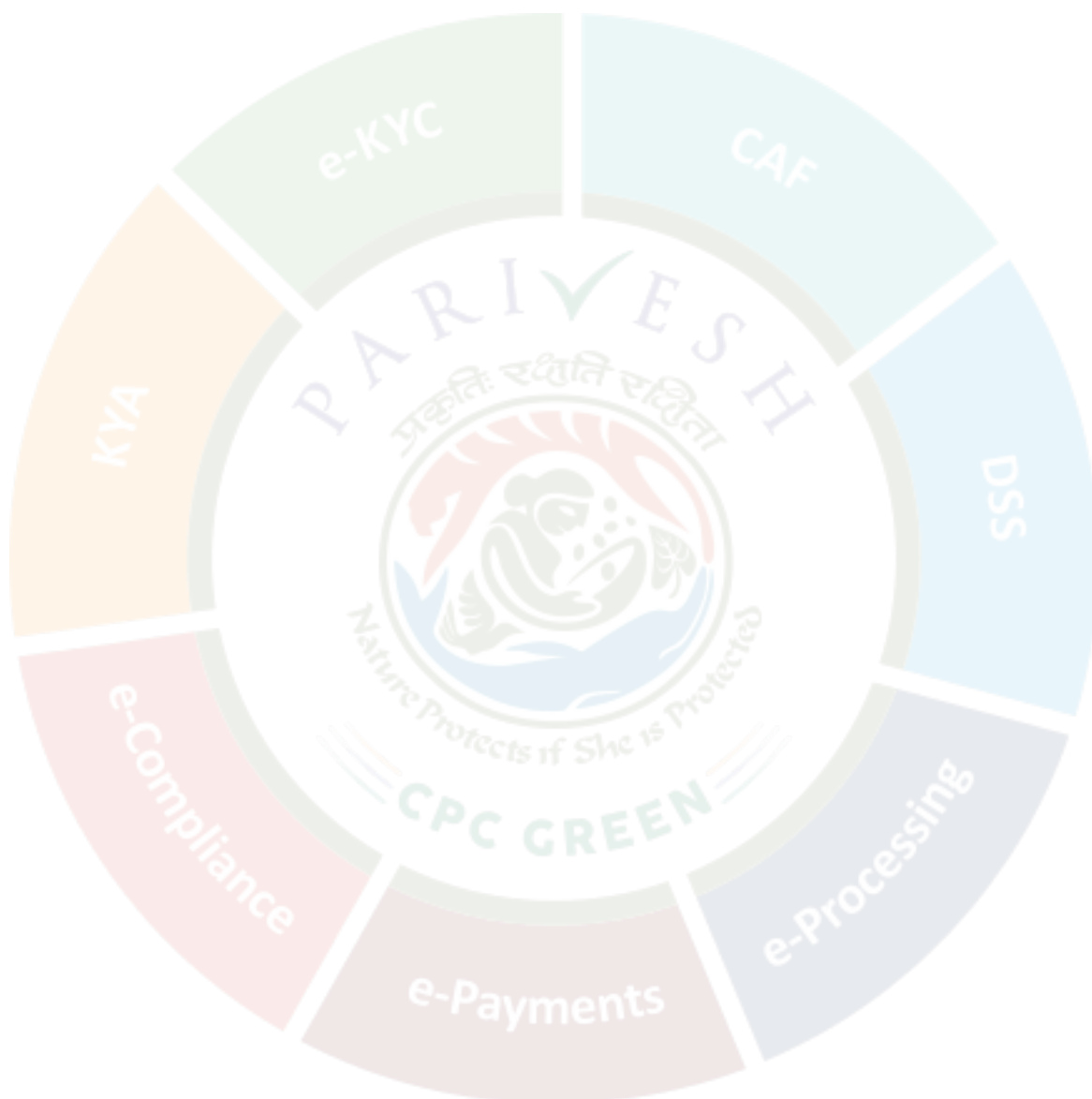
S. No	EC Conditions
10.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
10.2	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.
10.3	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.

S. No	EC Conditions
10.4	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.
10.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
10.6	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.
10.7	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.
10.8	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.
10.9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
10.10	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.
10.11	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.
10.12	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).
10.13	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.
10.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
10.16	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

S. No	EC Conditions
	furnishing the requisite data / information/monitoring reports.
10.17	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.

Additional EC Conditions

NA



S.No	Particulars	Details															
a.	Terms of Reference for undertaking EIA study	TOR dated 01.04.2024.															
b.	Period of baseline data collection	March to May, 2023															
c.	Date of Public Consultation	16.10.2024															
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	Village Santona, Taluka Sanguem, District South Goa, Goa															
f.	Total land	15.77 ha (Private Land)															
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	The total land is under the acquisition of the company.															
h.	Existence of habitation & involvement of R&R, if any	Nil															
i.	Elevation of the project site	40.6 to 53.4 m 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	Project site: No water body exists within the plant site. Study area: Following water bodies are falling in the 10 km study area: <table border="1"> <thead> <tr> <th>Water body</th><th>Distance (km)</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>Kalay River</td><td>0.115</td><td>East</td></tr> <tr> <td>Dudhsagar River</td><td>3.0</td><td>North</td></tr> <tr> <td>Sanguem River</td><td>8.0</td><td>South West</td></tr> <tr> <td>Panduranga Nala</td><td>7.0</td><td>West</td></tr> </tbody> </table>	Water body	Distance (km)	Direction	Kalay River	0.115	East	Dudhsagar River	3.0	North	Sanguem River	8.0	South West	Panduranga Nala	7.0	West
Water body	Distance (km)	Direction															
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S.No	Particulars	Details												
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Ugem River	8.0	South South East												
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Paroda River	9.5	West South West												
1.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Bhagwan Mahavir Wildlife Sanctuary & National Park Name of the ESZ: Bhagwan Mahavir Wildlife Sanctuary & National Park Status of Notification: Eco-Sensitive Zone notification of Bhagwan Mahavir Wildlife Sanctuary & National Park has been notified by MoEF&CC Gazette Notification No. S.O.221(E), dated 23.01.2015 Distance of Project from ESZ: 11.0 meters in East Direction Distance from Protected Area: 1.011 km in East Direction Distance from ESZ of Protected Area: 11 Meters in East Direction Netravali Wildlife Sanctuary Name of the ESZ/ESA: Netravali Wildlife Sanctuary Status of Notification: Eco-Sensitive Zone notification of Netravali Wildlife Sanctuary has been notified by MoEF&CC Gazette Notification No. S.O.555(E), dated 17.02.2015 Distance from Protected Area: 7.26 km in SE Direction Authenticated map of ESZ projecting distance of ESZ from project site: Location Map showing distance of above-mentioned Wildlife Sanctuary and National Park has been authenticated by the Dy. Conservator of Forests Working Plan Division "Goa Van Bhawan" Altinho Panaji Goa Vide letter No: DCF(WP)/Tech/Digi/Vol-I/75/2023-24/822 Dated: 16.11.2023. Status of NBWL approval: Not applicable as the plant is located outside the notified Eco-sensitive zone. List of Reserved and protected forests: 1. Kolem Reserved Forest (0.2 km in East direction) 2. Sanguem Reserved Forest (3.3 km in West direction) <i>Note: Apart from this, there are many small patches of forest area in 10 km radius of plant site.</i>												
m.	Project cost	The existing capital cost of the project was Rs. 44.40 Crores. The capital cost of the proposed expansion project is Rs. 35 Crores												

S.No	Particulars	Details		
		EMP	Capital (Rs. in Crores)	Recurring (Rs. in Crores)
n.	EMP cost		6.35 Crores	1.02 Crores
o.	Employment opportunity	The employment generation from the proposed expansion is 26 during the construction phase and 71 during the operation phase		
p.	Water and Power requirement	Total water requirement will be 1180 m ³ /day. Power – Total power requirement for the proposed project will be around 8 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

S. No.	Particulars	Product/By Product	Existing Capacity (Million TPA)	Additional Capacity (Million TPA)	Total Capacity after Expansion (Million TPA)	Remarks
1.	Lumps	Product	0.135	-0.010	0.125	Due to modernization of plant and depending on feed grade, product grade will improve. The product quantity will vary accordingly.
2.	Sinter Fines	Product	0.386	-0.211	0.175	
3.	Pellet Fines	Product	0.119	0.255	0.374	
Total product			0.640	0.034	0.674	
4.	Tailing	By Product	0.274	0.052	0.326	Quantity of Tailings generated will increase due to increase in Fe recovery and grade of the product.

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

S. N o.	Concerns raised during the Public Hearing	Physical Activity to be Done	Areas/L ocality	Action Plan Budget (Rs. In Lakh)		
				1 st Ye ar	2 nd Ye ar	3 rd Ye ar
1.	Expenditure towards Social Development					
	Support Education for	- Transport facilities to the students - Distribution of books, uniform etc. - Scholarship to meritorious students	Santona Village, Cormone m Village, Savargal, Devnam ol	4.0	4.0	4.0
	Health Care	- Health Camps will be arranged at regular basis - Providing facilities towards medical emergencies	Bandoli Village, Santona Village, Savargal, Ambeud ak	1.5	1.5	1.5
	Water Resources	- Providing drinking water to villagers - Providing water purifiers to nearby schools / Panchayats /Health Centre	Bandoli Village, Cormone m Village Morkani	2.0	2.0	2.0
	Sanitation and awareness campaign	- Cleaning and Desilting of drains and trenches - Conducting awareness programmes in schools on single use plastic ban in surrounding villages	Bandoli Village, Savargal, Cormone m	1.0	1.0	1.0
	Religious and cultural activities	- Providing donations to conduct religious and cultural activities - Providing support in form of allocating light source where there is no power supply	Santona Village, Bandoli Village, Kirlapal, Dabal	1.5	1.5	1.5
	Support for Agriculture/Horticult ure/Plantation	- Distribution of Saplings - Plantations near schools wherever feasible	Bandoli Village, Savargal, Cormone	1.5	1.5	1.5

S. No.	Concerns raised during the Public Hearing	Physical Activity to be Done	Areas/Locality	Action Plan Budget (Rs. In Lakh)		
				1 st Year	2 nd Year	3 rd Year
			m, Morkani			
	Support in sports activities to local youths	- Distribution of sports material and kits - Organizing cricket/volleyball tournaments	Santona Village, Bandoli Village, Ambeudak	1.5	1.5	1.5
Sub- Total				13.0	13.0	13.0
2.	Model Village Development Activities					
A	Education	Providing Sports Kit to School	Devnamol Village, Bandoli Village	0.5	0.5	0.5
		Repair and maintenance of existing Toilet Block at School	Savargal, Santona Village	1.0	1.0	1.0
		Renovation of Anganwadi Center	Santona Village, Bandoli Village	0.5	0.5	0.5
B	Health & Sanitation	Repair & maintenance of Community Toilets	Bandoli Village, Ambeudak	1.0	1.0	1.0
		Infrastructure for Sub-center	Cormone Village, Santona Village	0.5	0.5	0.5
C	Rural Infrastructure	Solar Street lights - 10 Nos.	Bandoli Village, Savargal, Cormone Village	0.75	0.75	0.75
		Bus Waiting shed Construction/ Development	Savargal, Bandoli Village	1.0	1.0	1.0
		Village Road Renovation/ maintenance Work	Bandoli Village	0.75	0.75	0.75

S. No.	Concerns raised during the Public Hearing	Physical Activity to be Done	Areas/Locality	Action Plan Budget (Rs. In Lakh)		
				1 st Year	2 nd Year	3 rd Year
	Sub- Total			6.0	6.0	6.0
	Grand Total			19.0	19.0	19.0

