

Date:28/05/2026

To,
The Director, (IA),
Ministry of Environment, Forest and Climate Change,
Indira Paryavaran Bhavan,
Jorbhag Road, New Delhi – 110 003

Sub: Submission of six-monthly compliance report for the period October 2025 to March 2026 as stipulated as stipulated in the Environmental Clearance, IA-J-11011/434/2023-IA-II(IND-I) dated 01-03-2025.

Ref: Environmental Clearance bearing file no. IA-J-11011/434/2023-IA-II(IND-I) dated 01-03-2025, for 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 of M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited), located at Village Santona, Taluka Sanguem, District South Goa, Goa.

Dear Madam/Sir,

With reference to the above referred Environmental Clearance, we are submitting herewith the six-monthly compliance report for the period October 2025 to March 2026 in accordance with the conditions stipulated in the said Environmental Clearance (EC) granted to our project M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited), located at Village Santona, Taluka Sanguem, District South Goa, Goa.

We wish to bring to your kind attention that the plant resumed operations on 13/03/2026 based on its existing approved capacity and in accordance with the Environmental Clearance (EC), has been granted Consent to Establish (CTE) for the proposed modernization of the plant. Further, no activities related to the enhancement have been initiated during the present six-monthly compliance period.

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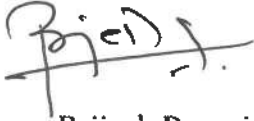
We would also like to affirm that all conditions stipulated in the EC will be duly complied with as we proceed with the implementation of the enhancement of the project and the detailed compliance will be reported in the subsequent six-monthly compliance reports.

The soft copy of the said EC compliance report has been sent electronically to the following:

1. Director, IA Division, MoEFCC, ms.mining2-mef@nic.in and Monitoring cell monitoring-ec@nic.in
2. Regional office of the MoEFCC, Bangalore rosz.bng-mef@nic.in
3. The member Secretary, Central Pollution Control Board ccb.cpcb@nic.in
4. Member Secretary, Goa State Pollution Control Board mail.gspcb@gov.in

Thanking you

Yours faithfully,



Brijesh Dessai

(Authorized Representative)



Encl : Six-Monthly Compliance Report (October 2026 to March 2026).

Copy to:

1. The Additional Director(s), MoEFCC Regional Office, Kendriya Sadan 4th Floor, E&F Wing, II Block Kormangala, Bangalore – 560034
2. Member Secretary, Central Pollution Control Board, Parivesh Bhavan, CBD-cum- office complex, East Arjun Nagar, New Delhi 110 032.
3. The Member Secretary, Goa State Pollution Control Board, Near Pilerne Industrial, Opp. Saligao Seminary, Saligao, Bardez, Goa - 403511

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

Proposal No	IA/GA/IND1/514061/2024
Compliance ID	1229548483
Compliance Number(For Tracking)	EC/COMPLIANCE/1229548483/2026
Reporting Year	2026
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	29-05-2026
RO/SRO Name	Shri S Senthil Kumar
RO/SRO Email	jk083.ifs@nic.in
State	GOA
RO/SRO Office Address	Integrated Regional Offices, Bengaluru

Note:- SMS and E-Mail has been sent to Shri S Senthil Kumar, GOA with Notification to Project Proponent.

Half Yearly Compliance Report**2026****01 Jun(01 Oct - 31 Mar)****Acknowledgement**

Proposal Name	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).		
Name of Entity / Corporate Office	SOCIEDADE DE FOMENTO INDUSTRIAL PRIVATE LIMITED		
Village(s)	SANTONA		
District	SOUTH GOA		
Proposal No.	IA/GA/IND1/514061/2024	Category	Industrial Projects - 1
Plot / Survey / Khasra No.	Survey No. 9/1(part) – 11.8939 Ha and 10/1 (part) – 3.8761 Ha	Sub-District	Sanguem
State	GOA	Entity's PAN	*****8860Q
MoEF File No.	IA-J-11011/434/2023-IA-II(IND-I)	Entity name as per PAN	SOCIEDADE DE FOMENTO INDUSTRIAL PRIVATE LIMITED

Compliance Reporting Details

Reporting Year	2026
Remarks (if any)	We wish to bring to your kind attention that the plant resumed operations on 13/03/2026 based on its existing approved capacity. The plant has been granted Consent to Establish (CTE) in accordance with the Environmental Clearance (EC) for the proposed modernization of the plant. Further, no activities related to the enhancement have been initiated during the present six-monthly compliance period from October 2025 to March 2026.
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office	SOCIEDADE DE FOMENTO INDUSTRIAL PRIVATE LIMITED
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	Project Area as per EC Granted	Actual Project Area in Possession
Private	15.77	15.77
Revenue Land	0	0
Forest	0	0
Others	N/A	N/A
Total	15.77	15.77

Others Area

Sr. no	Other Name	Area Granted	Area Actual
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Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Iron Ore	Million Tons per Annum (MTPA)	N/A	0.674	0.016715	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	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

PPs Submission: Complied

No litigation is pending against the Project and/or any direction/Order passed by any Court of Law against the project.

Date:

27/05/2026

2

Statutory compliance

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.

PPs Submission: Being Complied

During the compliance period the plant was in operation for a period of 15 days in the month of March 2026. However, the activities with respect to the enhancement of the project is yet to commence. The status on the implementation of environmental protection measures and safeguards proposed for the Wet Beneficiation Plant is attached as Annexure-1. The Project Proponent undertakes to implement all the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project.

Date:

27/05/2026

3

MISCELLANEOUS

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, MoEFCC in this regard	
	PPs Submission: Being Complied Carbon management plan for the project has been prepared by engaging J M Environet Pvt. Ltd., NABL accredited consultant recognized by MoEFCC and status of implementation of the recommendations are as follows: 1. Carbon sequestration is implemented by means of plantation. During monsoon, the existing greenbelt plantation in an area of 5.0 ha (31.71 percent) of the Plant area is strengthened by way of gap filling plantation during rainy season by planting native and fruit bearing species such as Jamun, Peru, Kokum, Sitaphal etc. 2. An area of 0.22 Ha. towards the western side of the plant boundary is brought under plantation. Thus, increasing the greenbelt area from 5.0 Ha. to 5.22 Ha. (33.1 percent of total plant area). Approximately 4075 saplings were planted within the plant area including Gap filling. 3. Additionally, 425 saplings were planted in a stretch of 170 m outside the eastern side of the plant boundary. Photographs showing the greenbelt development plantation and post plantation care are attached as Annexure-2. Further, to reduce the Carbon emission, use of LED bulbs within the Project area, periodic maintenance of air conditioners, inculcating practice of switching off electric appliances when not in use and imparting awareness training amongst the employees is undertaken. Also, it is proposed to install solar street lighting, to reduce carbon emission. All the measures recommenced in the Carbon Management Plan are being implemented in a time-bound manner.		Date: 28/05/2026
4	AIR QUALITY MONITORING AND PRESERVATION	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.	
	PPs Submission: Complied To minimise impact on the habitation of the locals, the following measures are being undertaken: The existing greenbelt plantation in an area of 5.0 ha (31.71 percent) of the Plant area is strengthened by way of gap filling plantation during rainy season by planting native and fruit bearing species such as Jamun, Peru, Kokum, Sitaphal etc. An area of 0.22 Ha. towards the western side of the plant boundary is brought under plantation. Thus, increasing the greenbelt area from 5.0 Ha. to 5.22 Ha. (33.1 percent of total plant area). Approximately 4075 saplings were planted within the plant area including Gap filling. Additionally, 425 saplings were planted in a stretch of 170 m outside the eastern side of the plant boundary. This plantation will act as a barrier and will reduce dust propagation outside the plant boundary. Photographs showing the greenbelt development plantation and post plantation care are attached as Annexure-2. During the year 2025-26, the environmental protective measures such as desilting of existing settling ponds and trenches were undertaken. The photographs showing desilting of settling ponds is enclosed as Annexure-3. Water tankers are engaged to spray water on haul roads to suppress dust generation. Water jets are installed at hopper to mitigate dust at source. Strictly, the vehicles having valid PUC certificate are engaged for transportation. Photographs showing dust suppression measures is attached as Annexure-4. The project proponent has also installed a sensor based CAAQMS towards downwind of the project at Devnamol village. Photograph of the installed CAAQMS is attached as Annexure-5. Environmental quality monitoring of the Air, surface and groundwater, noise environment is being carried out in Devnamol village. The Copy of the Environmental Monitoring Reports are attached as Annexure-6 (Colly).		Date: 28/05/2026
5	WATER QUALITY MONITORING AND PRESERVATION	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.	
	PPs Submission: Complied The Project Proponent has obtained NOC from Water Resources Department (WRD) dated		Date:

19/07/2024. As per the directions of WRD the project proponent has undertaken protective measures such as desilting of existing settling ponds, cleaning of trenches and drains before the onset of monsoon. During monsoon rain and storm water is diverted to the settling ponds. flocculant is added to the collected water to expedite the settlement of suspended solids and only clear water is released from the settling ponds. The discharge water along with upstream and downstream of Kalay River is analysed through NABL accredited laboratory once every month during the monsoon season. The analysis reports were submitted online to Goa State Pollution Control Board The copy of water analysis reports is enclosed as Annexure-6 (Colly). Copy of the NOC from WRD is enclosed as Annexure-7. Project Proponent has prepared 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 by engaging Government Engineering College, Farmagudi, Goa. The recommendations made thereunder such as desilting of settling ponds, drains and trenches is being implemented during the compliance period.		28/05/2026
6	Statutory compliance	1.6 Bhagwan Mahavir Wildlife Sanctuary and 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.
PPs Submission: Being Complied During the compliance period the beneficiation plant was in operation for a period of 15 days in the month of March 2026. However, the activities with respect to the enhancement of the project is yet to commence. The Wildlife Conservation Plan (WLCP) as per the Wildlife (Protection) Amendment Act, 2022 has been approved and certified by the Assistant Conservator of Forest, LC and CWLW, vide letter no. CWLW-81-Mining Oper-FD-2023-24/3208, dated 30/10/2024. As proposed in the WLCP following mitigative measures is undertaken during the compliance period; 1. The existing greenbelt plantation in an area of 5.0 ha (31.71 percent) of the Plant area is strengthened by way of gap filling plantation during rainy season by planting native and fruit bearing species such as Jamun, Peru, Kokum, Sitaphal etc. 2. An area of 0.22 Ha. towards the western side of the plant boundary is brought under plantation. Thus, increasing the greenbelt area from 5.0 Ha. to 5.22 Ha. (33.1 percent of total plant area). Approximately 4075 saplings were planted within the plant area including Gap filling. 3. Additionally, 425 saplings were planted in a stretch of 170 m outside the eastern side of the plant boundary. 4. Care is being taken for the survival of the said plantation by regular watering during non-monsoon season. Environmental protective measure are undertaken such as: 1. Dust suppression is carried out by water sprinkling in plant area and on haul roads. 2. Dust at feeder hopper is suppressed by water jets. 3. Construction and maintenance of settling ponds, drains and arrester walls to prevent water pollution. 4. Regular monitoring of environmental parameters such as Air, Noise and Water in the core and buffer zone. The list of plant species planted during the year 2025-26 is enclosed as Annexure-8. The other measures proposed in the approved WLPC will be implemented in letter and spirit. The mitigative measures along with the budget is indicated in the approved WLCP, to mitigate the impacts of the Project activities on the protected areas. Copy of the WLCP approval letter is enclosed as Annexure-9.		Date: 28/05/2026
7	Statutory compliance	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.
PPs Submission: Complied Project proponent has obtained the permission from Water Resource Department, Goa for use of water from nearby mining pit belonging to sister concern. The permission letter from WRD dated 10/06/2024 is enclosed as Annexure-10.		Date: 28/05/2026
8	GREENBELT	1.8 Three tier Green Belt shall be developed in atleast 33 percent 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 and broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution and noise levels towards sensitive areas nearby project site. Compliance status in this regard, shall be submitted to the concerned Regional Office of the MoEFCC.	
	PPs Submission: Being Complied The existing greenbelt covers an area of 5.00 Ha, Ha (i.e., 31.71 percent of the project area) with a plantation density of approximately 1800 trees per hectare. Over the years, additional plantation has been developed along haul roads, around settling ponds, and near various infrastructure facilities within the project area. During the year 2025-26, plantation is undertaken as gap filling in existing greenbelt, thereby enhancing the overall density to approximately 2500 trees per hectare. Further, an additional 0.22 Ha area has been brought under plantation using native and fruit-bearing species such as Jamun, Peru, Kokum, and Sitaphal etc. towards western side of the plant boundary sourced from the State Forest Department. Consequently, the total greenbelt area now stands at 5.22 Ha, accounting for 33.10 percent of the total project area. During the oncoming monsoon, plantation will also be undertaken as gap filling wherever required. The project proponent undertakes to implement the development of a green barrier/windshield within the plant premises in a phased manner to mitigate air and noise pollution towards nearby sensitive receptors. Photographs depicting the plantation activities are enclosed as Annexure-2. The survival rate of the developed greenbelt will be monitored periodically, and any damaged or dead plants will be replaced in subsequent years.		Date: 28/05/2026
9	GREENBELT	1.9 The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked 33 percent or 40 percent 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)	
	PPs Submission: Complied The Project Proponent (PP) has undertaken plantation activities during the monsoon season for the year 2025-26, in compliance with MoEFCC OM dated 24/07/2024. An attempt was made to upload the details of the plantation on the MeriLiFE portal (https://merilife.nic.in) however, due to technical issues, the information could not be uploaded. Photographs depicting the plantation activities carried out under the campaign 'Ek Ped Maa Ke Naam' are enclosed as Annexure-11.		Date: 28/05/2026
10	Corporate Environmental Responsibility	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 Ministrys 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 MoEFCC. PP shall also explore to undertake additional activities duly keeping in view the location of the project in the eco-sensitive western ghats region	
	PPs Submission: Agreed to Comply In accordance with MoEFCC OM dated 30/09/2020, the Project Proponent is in the process of consultation with the Sanvordem constituency, to implement the commitments made towards socio-economic development of the nearby villages as outlined in the EIA/EMP report. The status of implementation will be submitted to the Regional Office of MoEFCC in the subsequent compliance period. Copy of the letter for consultation with the local body is attached as Annexure-12. All the commitments made towards socio-economic development of the nearby villages will be implemented in consultation with the local panchayat. Keeping in view the location of the project with respect to the eco-sensitive Western Ghats region an additional plantation of 425 saplings in a 170m stretch outside the plant boundary towards eastern side has been carried out during the monsoon season with native and fruit bearing species. The plantation will be maintained and monitored for its survival on periodic basis and the damaged plants will be replaced with new plants in the subsequent years.		Date: 28/05/2026

11	Corporate Environmental Responsibility	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.
PPs Submission: Agreed to Comply The project proponent is in the process of consultation with the Sanvordem constituency, to undertake village adoption programme. The adoption programme will be prepared and implemented to develop Bandoli village into a model village. The progress will be submitted to the Regional Office of MoEFCC in the subsequent compliance period. Copy of the letter for consultation with the local body is attached as Annexure-12.		Date: 28/05/2026
12	MISCELLANEOUS	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 MoEFCC.
PPs Submission: Agreed to Comply The Wildlife Conservation Plan (WLCP) as per the Wildlife (Protection) Amendment Act, 2022 has been approved and certified by the Assistant Conservator of Forest, LC and CWLW, vide letter no. CWLW-81-Mining Oper-FD-2023-24/3208, dated 30/10/2024. As proposed in the WLCP following mitigative measures is undertaken during the compliance period; 1. The existing greenbelt plantation in an area of 5.0 ha (31.71 percent) of the Plant area is strengthened by way of gap filling plantation during rainy season by planting native and fruit bearing species such as Jamun, Peru, Kokum, Sitaphal etc. 2. An area of 0.22 Ha. towards the western side of the plant boundary is brought under plantation. Thus increasing the greenbelt area from 5.0 Ha. to 5.22 Ha. (33.1percent of total plant area). Approximately 4075 saplings were planted within the plant area including Gap filling. 3. Additionally, 425 saplings were planted in a stretch of 170 m outside the eastern side of the plant boundary. The list of plant species planted during the compliance period as enclosed as Annexure-8. The other measures proposed in the approved WLCP will be implemented in letter and spirit. The mitigative measures along with the budget is indicated in the approved WLCP, to mitigate the impacts of the Project activities on the protected areas. Copy of the WLCP approval letter is enclosed as Annexure-9.		Date: 28/05/2026
13	WASTE MANAGEMENT	1.13 PP shall adopt and implement Tailings management and mitigation measures, as per the standard guidance of CPCB/ SPCB
PPs Submission: Being Complied PP has implemented the following tailing management and mitigative measures as per the standard guidance of CPCB/ SPCB: 1. Tailing is stored in designated areas. Adequate precaution is taken to prevent surface runoff and water pollution. 2. The tailing from beneficiation process of Iron ore does not contain any leachable toxic elements. Hence, there will be no seepage and contamination of groundwater. 3. The PP has adopted zero liquid discharge policy. 4. Tailing generated from the plant process is passed through thickener, wherein water recovered from thickener is recirculated and reused in the plant process. 5. Monitoring of ground water is undertaken once every month of open wells located within and in the buffer of the plant area. 6. Surface water monitoring of discharge water and Kalay River upstream and downstream is undertaken every month to monitor surface runoff during monsoon.		Date: 29/05/2026
14	Statutory compliance	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.
PPs Submission: Complied The PP has obtained Consent to Establish under Section 26 of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 21 of the Air (Prevention and Control of Pollution) Act, from Goa State Pollution Control Board. A copy of Consent to Establish dated 12/09/2025 is enclosed as Annexure-13.		Date: 28/05/2026

General Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	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.
PPs Submission: Complied Condition duly noted		Date: 28/05/2026
2	Statutory compliance	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.
PPs Submission: Complied No litigation is pending against the Project and/or any direction/Order passed by any Court of Law against the project.		Date: 28/05/2026
3	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Being Complied The project does not involve any process stacks, and hence the installation of a Continuous Emission Monitoring System (CEMS) is not applicable. During the compliance period from October 2025 to March 2026, the Beneficiation plant has been in operation for a period of 15 days during the month of March 2026. However, the activities with respect to the enhancement of the project is yet to commence. The PP has installed a Continuous Ambient Air Quality Monitoring Station (CAAQMS) in the buffer zone (downwind) at Devnamol village for the monitoring of Air Quality parameters. Further, PP has procured 2 CAAQMS instruments and is in the process of installing it in the core zone (Downwind) and Buffer zone (Upwind). Once the installations are completed same will be connected to the online servers of the SPCB and CPCB. The devices will be calibrated from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.		Date: 28/05/2026
4	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Being Complied The PP has installed a Continuous Ambient Air Quality Monitoring Station (CAAQMS) in the buffer zone (downwind) at Devnamol village for the monitoring of Air Quality monitoring parameters PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2		Date: 28/05/2026

and NOx emissions. Further, PP has procured 2 CAAQMS instruments and is in the process of installing it in the core zone (Downwind-direction) and Buffer zone (Upwind-direction). Once the installations are completed same will be connected to the online servers of the SPCB and CPCB.			
5	AIR QUALITY MONITORING AND PRESERVATION	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.	
PPs Submission: Complied During the compliance period from October 2025 to March 2026, the Beneficiation plant has been in operation for a period of 15 days during the month of March 2026. However, the activities with respect to the enhancement of the project is yet to commence. The project proponent has undertaken fugitive emissions monitoring for the month of March 2026, in the plant premises through laboratory recognized under Environment (Protection) Act, 1986. Copy of the monitoring reports are collectively attached as Annexure-6 (colly).			Date: 28/05/2026
6	AIR QUALITY MONITORING AND PRESERVATION	2.4 Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions	
PPs Submission: Complied Not Applicable as the project does not involves any process stacks.			Date: 28/05/2026
7	AIR QUALITY MONITORING AND PRESERVATION	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	
PPs Submission: Complied During the compliance period from October 2025 to March 2026, the Beneficiation plant has been in operation for a period of 15 days during the month of March 2026. Since the plant is a wet beneficiation plant, there is minimal dust generated at the source during plant operation. PP has also undertaken appropriate Air Pollution Control (APC) system for all the dust generating points such as installing water jets at hopper and water sprinkling on roads by engaging water tankers. Photographs of dust suppression measures are attached as Annexure-4. During the year 2025-26, existing greenbelt plantation in an area of 5.0 ha (31.71 percent) of the Plant area is strengthened by way of gap filling plantation during rainy season which includes native and fruit bearing species such as Jamun, Peru, Kokum, Sitaphal etc. An area of 0.22 Ha. towards the western side of the plant boundary is brought under plantation. Thus, increasing the greenbelt area from 5.0 Ha. to 5.22 Ha. (33.1percent of total plant area). Approximately 4075 saplings were planted within the plant area including Gap filling. Additionally, 425 saplings were planted in a stretch of 170 m outside the eastern side of the plant boundary. This plantation will act as Air Pollution Control measures for all the dust generating points including fugitive dust from all vulnerable sources.			Date: 28/05/2026
8	AIR QUALITY MONITORING AND PRESERVATION	2.6 The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	
PPs Submission: Complied The project is a wet beneficiation plant and thus does not necessitate the use of dust bags. However, generation of dust is suppressed at the source i.e. at Hopper by use of water jets. Photograph of dust suppression measures is attached as Annexure-4.			Date: 28/05/2026
9	AIR QUALITY MONITORING AND PRESERVATION	2.7 Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	

PPs Submission: Agreed to Comply The PP undertakes to carry out following measures during transportation of processed ore by road. 1. Covering of carriers of trucks by Tarpaulin. 2. Passing of trucks through wheel wash system. 3. Control of speed of ore transportation trucks will be implemented. 4. Additionally, manual road sweeping machines will be deployed to clean the transport roads. 5. Transport roads will be cleaned by using water under pressure. Shop floors, roofs will be cleaned regularly by using vacuum cleaners.		Date: 28/05/2026
10	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Being Complied Since the operation of mines, only raw material is being brought at the plant site. Transportation activities have not yet commenced for the unit. The carriers of trucks carrying raw material are covered with tarpaulin to ensure that spillage and dust generation is prevented. The trucks engaged in transport of raw material are in good condition thus, ensuring leak proof trucks/ dumpers. PP undertakes to cover the carriers of trucks carrying finished product with tarpaulin to ensure that spillage and dust generation is prevented. Thus, ensuring use of leak proof trucks/ dumpers.		Date: 28/05/2026
11	AIR QUALITY MONITORING AND PRESERVATION	2.9 The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
PPs Submission: Complied The beneficiation plant does not involve any heat treatment furnaces, hence the condition is not applicable.		Date: 28/05/2026
12	AIR QUALITY MONITORING AND PRESERVATION	2.10 Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
PPs Submission: Being Complied Presently, dust suppression on raw material stockpiles is being carried out through regular water sprinkling and proper material handling practices. The installation of wind shelter fencing and adoption of chemical spraying measures are under consideration and shall be implemented progressively to further strengthen dust control measures. Additionally, thick plantation acting as a natural barrier from dust exists around the plant premises towards: 1. Northern side: Company has already developed greenbelt along the northern boundary of the plant site, and thick plantation extends beyond the boundary (land under possession of company) of the plant area, which will serve as an additional greenbelt. Also, company has proposed to plant additional species for gap plantation on the northern side of the plant boundary, where plantation density is low. 2. Eastern side: Company has undertaken plantation during monsoon season of 2025 in 170-meter stretch outside the plant boundary. Around 425 native and fruit bearing saplings have been planted during the compliance period. 3. Southern Side: There is already existing continuous greenbelt along the entire southern boundary of the Project area. At places the width of the greenbelt extends beyond 7.5 m and also thick plantation extends beyond boundary of the project serving as a greenbelt. 4. Western side: During the compliance period additional area of 0.22 Ha. along the western boundary of the plant site is brought under plantation with native and fruit bearing species such as Jamun, Peru, Kokum, Sitaphal etc. procured from State Forest Department. The width of 7.5 m along the western boundary is being developed as greenbelt. Photographs showing the greenbelt development plantation and post plantation care is attached as Annexure-2.		Date: 28/05/2026
13	AIR QUALITY MONITORING AND PRESERVATION	2.11 Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars
PPs Submission: Complied The beneficiation plant does not involve any tunnels, motor houses, or oil cellars in its design or		Date:

operation. Hence, mechanical ventilation systems for the project as per ACGIH guidelines, is not required.		28/05/2026
14	AIR QUALITY MONITORING AND PRESERVATION	2.12 Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB
PPs Submission: Being Complied Pollution control systems and environmental management measures in the beneficiation plant are being implemented in line with applicable CREP guidelines and CPCB norms, including dust suppression arrangements, water recycling systems, monitoring practices, and proper waste management measures.		Date: 28/05/2026
15	AIR QUALITY MONITORING AND PRESERVATION	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
PPs Submission: Being Complied The project is an iron ore wet beneficiation plant and hence generation of dust is minimum during plant operation. Dust generated during feeding is suppressed at the source by using water jets at the hopper. The trucks having valid PUC will be engaged for transportation activities. The carrier of the trucks carrying ore will be covered with tarpaulin to prevent the dust getting airborne. A wheel wash system has been installed on the transport route before the trucks entering the tar road. Fuel will be purchased from the authorised and reputed fuel vendors. Measures to control dust generated during handling of raw material and finished product are being implemented by engaging water tankers for dust suppression inside and outside the plant premises including dust suppression on the haul road. All measures to control dust generation are being implemented in a phased manner considering operational requirements.		Date: 28/05/2026
16	AIR QUALITY MONITORING AND PRESERVATION	2.14 Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals
PPs Submission: Complied The project is a wet beneficiation plant and thus does not necessitate the use of dust bags.		Date: 28/05/2026
17	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Agreed to Comply Regular water sprinkling is presently being carried out at raw material yards, operational areas, and along plant roads to control fugitive emissions. Water jets are installed at feed hopper to mitigate dust. Installation of dedicated water sprinkler/water mist systems at strategic locations is being planned and shall be implemented progressively based on operational requirements and site feasibility.		Date: 28/05/2026
18	AIR QUALITY MONITORING AND PRESERVATION	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

PPs Submission: Complied The project does not involve any process stacks; hence the condition is not applicable.		Date: 28/05/2026
19	AIR QUALITY MONITORING AND PRESERVATION	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
PPs Submission: Being Complied PP undertakes to provide additional arrangement to control fugitive dust as under- a) Dust suppression measures are presently being undertaken through regular water sprinkling and proper material handling practices at bulk raw material storage and transfer areas and installed water jets at feed hopper. Installation of dedicated fog/mist sprinkler systems at transfer points and storage areas for iron ore is being planned and shall be implemented progressively based on operational requirements and site feasibility. Photograph showing dust suppression measure is attached as Annexure-4. b) During transportation the carriers of trucks carrying raw material and finished product are being covered with tarpaulin to prevent spillage and dust from getting airborne. c) Wheel wash system is installed for trucks carrying ore before entering the tar road. Photograph of the Wheel washing system is enclosed as Annexure-14.		Date: 28/05/2026
20	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Being Complied The wet beneficiation plant follows a Zero Liquid Discharge (ZLD) policy. Tailing generated from the plant process is passed through thickener, wherein water recovered from thickener is recirculated and reused in the plant process. As there will not be any discharge of effluent from the plant process, installation of continuous effluent online monitoring system is not applicable. The surface runoff generated during monsoon is passed through trenches and series of settling ponds, and the clear rainwater is released during the monsoon season. The released water along with upstream and downstream of the Kalay river was analysed through NABL accredited lab once in every month during the monsoon season. The analysis reports were uploaded on the portal of Goa State Pollution Control Board. The copy of water analysis reports monitored during monsoon for the month of October 2025 is enclosed as Annexure-15.		Date: 28/05/2026
21	WATER QUALITY MONITORING AND PRESERVATION	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
PPs Submission: Complied Regularly ground water quality monitoring is being carried out at 9 open wells in the plant area and in the adjacent areas, at a frequency of once a month, through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories. Copy of monitoring report is attached as Annexure-6 (colly).		Date: 28/05/2026
22	WATER QUALITY MONITORING AND PRESERVATION	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.

PPs Submission: Being Complied During the year 2025-26, before onset of the monsoon desilting of the collection pits (Settlings ponds) and trenches were undertaken. During monsoon rain and storm water was diverted to the settling ponds through trenches. Flocculant was added to the collected water to expedite the settlement of suspended solids and only clear water was released from the settling ponds. The discharge water along with upstream and downstream of Kalay River was analysed through NABL accredited laboratory once in every month during the monsoon season. Copy of water analysis reports monitored during monsoon for the month of October 2025 is enclosed as Annexure-15. Before the onset of monsoon, garland drains will be provided along the raw material stacks to arrest surface run-off, in an event of heavy rains.		Date: 28/05/2026
23	WATER QUALITY MONITORING AND PRESERVATION	3.4 Water meters shall be provided at the inlet to all unit processes in the plant
PPs Submission: Complied Water meter at the inlet point to the plant has been installed. Photograph of the Water meter is attached as Annexure-16.		Date: 28/05/2026
24	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied The project is a wet beneficiation plant. The wet beneficiation plant follows a Zero Liquid Discharge (ZLD) policy. Tailing generated from the plant process is passed through thickener, wherein water recovered from thickener is recirculated and reused in the plant process. Storm water runoff harvested in the settling ponds during monsoon is utilized for plantation, dust suppression and augment groundwater recharge. Domestic waste waters is treated through an existing septic tank and soak pit system.		Date: 28/05/2026
25	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Complied The wet beneficiation plant follows a Zero Liquid Discharge (ZLD) policy. Tailing generated from the plant process is passed through thickener, wherein water recovered from thickener is recirculated and reused in the plant process. As there will not be any discharge of effluent from the plant process, the requirement of ETP does not arise. The domestic wastewater generated will be drained by underground impervious drains, leading to appropriately designed septic tanks and soak pits. In view of the above facilities in place, no contamination of any kind of water body is anticipated.		Date: 28/05/2026
26	WATER QUALITY MONITORING AND PRESERVATION	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
PPs Submission: Agreed to Comply The raw material used for beneficiation process is Iron ore, which does not contain any leachable toxic elements. Hence, provision of impervious flooring for the stockyards is not needed. Before the onset of monsoon, garland drains will be provided along the raw material stacks to arrest surface run-off. The environmental protective measures such as desilting of existing settling ponds and trenches will be undertaken before the onset of Monsoon. During monsoon rain and storm water is diverted to the settling ponds. Flocculant is added to the collected water to expedite the settlement of suspended solids and only clear water is released from the settling ponds The action plan submitted		Date: 28/05/2026

in EIA/EMP report are being implemented.		
27	WATER QUALITY MONITORING AND PRESERVATION	3.8 Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report
PPs Submission: Complied There exists two settling ponds having capacity of 22,600m3, which acts as rainwater harvesting structure during monsoon season, and replenishes groundwater. Further, project proponent has implemented roof top rainwater harvesting towards eastern side of the plant boundary. The harvested water from the building roof is directed into a recharge pit having dimensions of 9 ft. x 11 ft. x 5 ft. which allows infiltration of the collected rainwater into the subsurface strata, further enhancing groundwater replenishment. The photographs showing existing settling ponds as rainwater harvesting facility and roof top rainwater harvesting arrangement is enclosed as Annexure 17.		Date: 28/05/2026
28	WATER QUALITY MONITORING AND PRESERVATION	3.9 Tailing management plan shall be implemented as included in EIA report.
PPs Submission: Agreed to Comply During the compliance period the beneficiation plant was in operation for a period of 15 days in the month of March 2026. However, the activities with respect to the enhancement of the project is yet to commence. Presently, the tailings generated from beneficiation plant is primarily collected in thickener for water recovery. The thickened slurry from thickener is transported to the tailing stacking area. Upon enhancement by way of modernisation in terms of Environmental Clearance the tailings will be stored in cake form containing less than 20 percent moisture in an area of 2.43 Ha within plant site. The tailing material will be used for making roads, filling low lying areas, etc. Disposal of tailing to nearby cement industries, tiles, paver manufactures is envisaged. Further, tailing will be utilized for brick manufacturing and for future sale whenever demand exists. The PP undertakes to implement tailing management plan as included in EIA report.		Date: 29/05/2026
29	WATER QUALITY MONITORING AND PRESERVATION	3.10 Tailings from Iron Ore beneficiation plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.
PPs Submission: Agreed to Comply During the compliance period the beneficiation plant was in operation for a period of 15 days in the month of March 2026. However, the activities with respect to the enhancement of the project is yet to commence. Majority of the water used in beneficiation process is recovered by subjecting the tailing slurry to thickener. Upon enhancement by way of modernisation in terms of Environmental Clearance the tailings will be subjected through Pressure filter, and Horizontal Vacuum Belt Filter. Tailings will be stored in an earmarked area in cake form containing less than 20 percent moisture. The generated tailing will be used for filling low lying areas, etc. Disposal of tailing to nearby cement industries, tiles, paver manufactures is envisaged. Also, tailing will be utilized for brick manufacturing and for future sale whenever demand exists. We undertake, that upon the modernization of the beneficiation plant, the tailings from iron ore beneficiation plant will be subjected to dewatering through filter press so as to ensure no slime is generated.		Date: 29/05/2026
30	Noise Monitoring & Prevention	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.
PPs Submission: Agreed to Comply During the compliance period from October 2025 to March 2026, the Beneficiation plant has been in operation for a period of 15 days during the month of March 2026. Noise monitoring is being carried out at 4 locations including 1 location in the plant area, as per the prescribed guidelines. Reports of the noise monitoring are attached as Annexure-6 (colly).		Date: 28/05/2026
31	Noise Monitoring & Prevention	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.	
PPs Submission: Complied Measures are taken to maintain ambient noise levels such as: 1. Equipment installed are designed to conform to occupational noise levels prescribed by regulatory agencies 2. Proper and regular Oiling and Greasing of machines is done. 3. Greenbelt development / plantation will help in attenuating noise. 4. Implementation of an effective planned preventive maintenance checklist, which reduces noise level by more than 50 percent. 5. Additionally, Earmuffs/ Earplugs are provided to worker working at the source. 6. Properly insulated enclosures are provided to equipment. Noise monitoring is being carried out at 4 locations including 1 location in the plant area, as per the prescribed guidelines and ambient noise levels conform to the standards prescribed i.e. during daytime and 70 dB(A) during night time. Reports of the noise monitoring are attached as Annexure-6 (colly).			Date: 28/05/2026
32	ENERGY PRESERVATION MEASURES	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	
PPs Submission: Agreed to Comply Project Proponent undertakes to install solar powered streetlights. Solar power generation on roof tops of buildings will be implemented for office use and general lighting in a phased manner considering operational requirements and infrastructure readiness.			Date: 28/05/2026
33	ENERGY PRESERVATION MEASURES	5.2 Provide LED lights in their offices and residential areas.	
PPs Submission: Complied LED lights are provided in the office premises. There are no residential areas within the Plant area.			Date: 28/05/2026
34	Risk Mitigation and Disaster Management	6.1 Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	
PPs Submission: Agreed to Comply During the compliance period from October 2025 to March 2026, the Beneficiation plant has been in operation for a period of 15 days during the month of March 2026. Also the activities with respect to the enhancement of the project is yet to commence. However Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is prepared. The same will be implemented as per requirement.			Date: 28/05/2026
35	Human Health Environment	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.	
PPs Submission: Agreed to Comply The beneficiation plant involves wet processing and does not involve high-temperature operations such as smelting, heat treatment, or furnace-based activities. Therefore, high-temperature work zones requiring heat stress analysis are not applicable for the project. The workers working in the beneficiation plant area are provided with Personal Protection Equipment (PPE) such as Safety helmets, Safety shoes, goggles, gloves, etc. as per the norms of Factory Act.			Date: 28/05/2026
36	Human Health Environment	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.	
PPs Submission: Agreed to Comply			Date:

Local labourers from nearby villages will be engaged for construction activities. The workers will commute daily to the project site and return to their homes after completing their scheduled work. Therefore, on-site labour housing is not required. However, the Project Proponent is committed to ensuring the welfare and safety of workers. In the event construction labours are required to stay at the site, the PP undertakes to provide all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche, etc.		28/05/2026
37	Human Health Environment	6.4 Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
PPs Submission: Complied The PP has carried out occupational health checkup of the workers and records are maintained as per the Factories Act.		Date: 28/05/2026
38	WASTE MANAGEMENT	7.1 Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
PPs Submission: Being Complied Used oil generated from various activities of plant operations are being stored in leak proof containers to avoid spillage and upon generation of enough quantity the same will be disposed through SPCB authorized recyclers, as per the provisions of The Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and in compliance to consent to operate granted by Goa State Pollution Control Board.		Date: 28/05/2026
39	WASTE MANAGEMENT	7.2 Kitchen waste shall be composted or converted to biogas for further use.
PPs Submission: Complied Food waste generated from canteen is composted in-house through a compost pit constructed within the plant area to facilitate the proper disposal and treatment of biodegradable kitchen waste thus contributing to sustainable waste management and soil health improvement. The compost is used as manure for plantation. The photographs showing compost pit is enclosed as Annexure-18.		Date: 28/05/2026
40	WASTE MANAGEMENT	7.3 100 percent 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 Ministries Regional Office
PPs Submission: Complied As the project is an Iron ore wet beneficiation plant and does not involve any combustion or thermal processes that generate fly ash, the condition is not applicable.		Date: 28/05/2026
41	WASTE MANAGEMENT	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.
PPs Submission: Complied		Date:

During the year 2025-26, the Project Proponent conducted an awareness program on the ban of Single-Use Plastics at a nearby Government School. A presentation was delivered to the students highlighting the adverse effects of single-use plastics on human health and the environment, supported by pictorial illustrations. The students were also informed about various eco-friendly alternatives to single-use plastics. A report along with photographs on the measures taken on the Ban of Single use Plastic is enclosed as Annexure-19.		28/05/2026
42	WASTE MANAGEMENT	7.5 A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
PPs Submission: Complied The PP undertakes to dispose Electronic waste through E-waste collectors authorized by SPCB. Copy of e-waste returns submitted during the financial year 2024-25 at Company level is enclosed as Annexure-20.		Date: 28/05/2026
43	GREENBELT	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
PPs Submission: Being Complied The GHG emission for the plant is prepared and forms a part of Carbon Management Plan. A copy of the abstract of the GHG inventory is attached as Annexure-21. Programme for reduction of the GHG emission with respect to Carbon sequestration through plantation is as under: 1 The existing greenbelt plantation in an area of 5.0 ha (31.71 percent) of the Plant area is strengthened by way of gap filling plantation during rainy season by planting native and fruit bearing species such as Jamun, Peru, Kokum, Sitaphal etc. 2 An area of 0.22 Ha. towards the western side of the plant boundary is brought under plantation. Thus increasing the greenbelt area from 5.0 Ha. to 5.22 Ha. (33.1 percent of total plant area). Approximately 4075 saplings were planted within the plant area including Gap filling. 3 Additionally, 425 saplings were planted in a stretch of 170 m outside the eastern side of the plant boundary. Additionally, the following measure and practices are implemented at the office premises. 1. Practice of switching off appliances such as lights, fans, Air conditioners etc. when not in use. 2. Putting computers and laptops on standby to conserve energy and efforts 3. Annual maintenance of refrigerators, ACs, removal of blockages from air vents, replacing with LED lights.		Date: 28/05/2026
44	GREENBELT	8.2 Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of companys 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.
PPs Submission: Complied Decarbonisation programme is outlined in the comprehensive Carbon Management Plan prepared by engaging J M Environet Pvt. Ltd., NABL accredited consultant recognized by MoEFCC. Copy of the report is enclosed as Annexure-22.		Date: 28/05/2026
45	GREENBELT	8.3 Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
PPs Submission: Complied The PP has undertaken the greening and paving in the plant office premises prone to soil erosion and dust pollution. Photographs are enclosed as Annexure-23.		Date: 28/05/2026
46	Corporate Environmental Responsibility	9.1 The project proponent shall comply with the provisions contained in this Ministrys 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.
PPs Submission: Being Complied The project proponent is in the process of consultation with the Sanvordem constituency, to undertake village adoption programme. The adoption programme will be prepared and implemented to develop Bandoli village into a model village. The progress will be submitted to the Regional Office of MoEFCC in the subsequent compliance period. Copy of the letter for consultation with the local body is attached as Annexure-12.		Date: 28/05/2026
47	Statutory compliance	9.2 The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEFCC as a part of six-monthly report.
PPs Submission: Complied The project proponent have well laid down environmental policy duly approved by the Board of Directors. Copy of Board Resolution and environmental policy is enclosed herewith as Annexure-24.		Date: 28/05/2026
48	Statutory compliance	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.
PPs Submission: Complied The project proponent has well set up Environmental Management Cell. The Environmental Management cell at corporate level is headed by CEO of the Company. At project level, the cell is headed by Director/ Head Mineral Resource, assisted by Manager (Environment), Manager (Plant/ Mine), Safety officer, Administrative officer and other qualified engineers.		Date: 28/05/2026
49	Statutory compliance	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 MoEFCC
PPs Submission: Agreed to Comply During the compliance period from October 2025 to March 2026, the Beneficiation plant has been in operation for a period of 15 days during the month of March 2026. Also, the activities with respect to the enhancement of the project is yet to commence. The project proponent is committed to conducting periodic performance evaluation of all pollution control systems through internal assessment and/or approved agencies to ensure efficient operation and compliance with prescribed environmental standards. Necessary corrective and preventive measures, wherever required, shall also be undertaken based on the test results. Reports of the performance test will be submitted in subsequent six-monthly report.		Date: 28/05/2026
50	MISCELLANEOUS	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 proponents website permanently

PPs Submission: Complied As per the stipulated condition, the Environmental Clearance granted to the project has been advertised on 05/03/2025, in the following local newspapers- 1. Bhaangarbhui (Konkani Newspaper) 2. Goan Vaarta (Marathi Newspaper) 3. Navhind Times (English Newspaper) The copies of the newspaper cutting are enclosed as Annexure-25. Additionally, the copy of Environmental Clearance is displayed on the Company website (URL: https://fomento.in/index.php)		Date: 28/05/2026
51	MISCELLANEOUS	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
PPs Submission: Complied The copies of Environmental Clearance has been submitted to the Heads of local bodies, Panchayats and Municipal Bodies and other relevant offices of the Government for display at their office vide letter dated 17/03/2025 Copies of the letter dated 17/03/2025 are attached herewith as Annexure-26.		Date: 28/05/2026
52	MISCELLANEOUS	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.
PPs Submission: Complied The PP has uploaded the Six Monthly Compliance report for a period from April 2025 to September 2025 on the Company Website (URL: https://www.fomento.in/greaterferromet.php.compliances)		Date: 28/05/2026
53	MISCELLANEOUS	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.
PPs Submission: Complied Ambient Air quality monitoring to monitor the pollutants level namely PM10, SO2, NO2 during construction and operation stage is undertaken. Copy of the monitoring report is attached as Annexure-6 (colly). The display of monitored Ambient Air Quality (AAQ) data along with other key environmental parameters is displayed on an LED display board, installed near the entrance of the project site, ensuring that the environmental monitoring results are clearly visible to the public and stakeholders. The photographs showing the LED display board is enclosed as Annexure-27. Also, the monitoring reports are uploaded on the website of the company. Link of the website is as follows: https://www.fomento.in/greater.ferromet.php.compliances		Date: 28/05/2026
54	MISCELLANEOUS	10.5 Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
PPs Submission: Agreed to Comply The action plan for development of connecting and internal roads in line with MSA requirements and IRC guidelines is under preparation. The same shall be implemented whenever feasible in a phased manner considering operational requirements, traffic movement, road safety, and dust mitigation measures.		Date: 28/05/2026
55	MISCELLANEOUS	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.
PPs Submission: Complied		Date:

Six-monthly reports on the status of the compliance of the stipulated environmental conditions is submitted on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.		28/05/2026
56	MISCELLANEOUS	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.
PPs Submission: Complied The PP has submitted environmental statement for financial year 2024-25 in Form-V to Goa State Pollution Control Board. A copy of Form- V has also been uploaded on the website of the company. Copy of Form V is enclosed as Annexure-28.		Date: 28/05/2026
57	MISCELLANEOUS	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
PPs Submission: Agreed to Comply Funds for the project were utilized from internal sources as approved by the Board of the PP, hence, the condition of financial closure is not applicable. The development work with respect to the enhancement of the plant operation through modernisation is yet to commence. Upon start of production through modernisation, the same will be intimated to the Ministry regional office.		Date: 28/05/2026
58	MISCELLANEOUS	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
PPs Submission: Being Complied During the compliance period the plant was in operation for a period of 15 days in the month of March 2026. However, the activities with respect to the enhancement of the project is yet to commence. The status on the implementation of environmental protection measures and safeguards proposed for the Wet Beneficiation Plant is attached as Annexure-1.		Date: 28/05/2026
59	MISCELLANEOUS	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 MoEFCC
PPs Submission: Being Complied The Wildlife Conservation Plan (WLCP) as per the Wildlife (Protection) Amendment Act, 2022 has been approved and certified by the Assistant Conservator of Forest, LC and CWLW, vide letter no. CWLW-81-Mining Oper-FD-2023-24/3208, dated 30/10/2024. During the compliance period some mitigative measures are already undertaken such as; 1. Strengthening of the existing plantation by way of gap filling. 2. Development of greenbelt towards western side of the plant boundary in an area of 0.22 Ha. with native and fruit bearing plant species. 3. Plantation outside the plant boundary in a 170 meter stretch at eastern side of the plant boundary. The photographs showing plantation is enclosed as Annexure-2. The other measures proposed in the approved WLCP will be implemented in letter and spirit in a phased manner. The mitigative measures along with the budget is indicated in the approved WLCP, to mitigate the impacts of the Project activities on the protected areas. Copy of the WLCP approval letter is enclosed as Annexure-9.		Date: 28/05/2026
60	MISCELLANEOUS	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.
PPs Submission: Complied The PP have uploaded the environment related expenditure details on the company web site for the information to public/public domain.		Date: 28/05/2026
61	MISCELLANEOUS	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 (MoEFCC).
PPs Submission: Complied The PP undertakes to comply with the condition.		Date: 28/05/2026
62	MISCELLANEOUS	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.
PPs Submission: Complied The condition is duly noted		Date: 28/05/2026
63	MISCELLANEOUS	10.14 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory
PPs Submission: Complied The condition is duly noted		Date: 28/05/2026
64	MISCELLANEOUS	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
PPs Submission: Complied The condition is duly noted		Date: 28/05/2026
65	MISCELLANEOUS	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 furnishing the requisite data / information/monitoring reports.
PPs Submission: Complied The project proponent undertakes to extend full cooperation to the officer (s) of the Regional Office to furnish the requisite data / information/monitoring reports whenever necessary.		Date: 28/05/2026
66	MISCELLANEOUS	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.
PPs Submission: Complied The condition is duly noted		Date: 28/05/2026

Visit Remarks

Last Site Visit Report Date:

N/A

Additional Remarks:

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

STATUS OF IMPLEMENTATION OF ENVIRONMENT MANAGEMENT PLAN
M/S. GREATER FERROMET

a) Water jets:

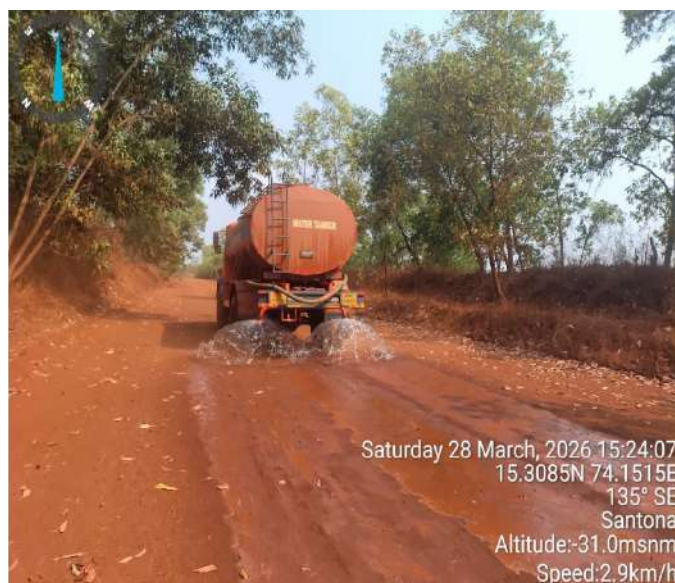
Generation of dust at feed hopper is suppressed at the source by use of water jets.

Photograph of the water jets at feed Hopper is given below.



b) Sprinkling of water on haul roads:

Haul roads and other open areas within the plant premises are sprinkled with water regularly as a measure towards prevention of dust pollution. Photograph showing dust suppression on haul road is shown below.



c) Wheel washing system with tyre sprinkler:

A wheel washing system with tyre sprinkler has been established for the trucks carrying mineral, at a location just before the trucks enter the asphalted road. Photograph of wheel washing system is shown below.



d) Speed limit for Iron Ore transportation trucks:

Directorate of Mines and Geology, Govt. of Goa (DMG) monitors the speed of ore carrying transport trucks on roads through online monitoring system viz. Bhumija. It is mandatory for the ore carrying transport trucks to register with the DMG and comply with the directions from DMG and follow speed limitation. Any trucks not following the imposed rules are penalised for non-compliance. Additionally, the driver operating tipper trucks engaged for ore transportation are provided on-job training.

e) Greenbelt Development

The existing greenbelt plantation in an area of 5.0 ha (31.71 percent) of the Plant area is strengthened by way of gap filling plantation. Additionally, an area of 0.22 Ha. towards the western side of the plant boundary is brought under plantation. Approximately 4075 saplings were planted within the plant area including Gap filling. Additionally, 425 saplings were planted in a stretch of 170 m outside the eastern side of the plant boundary. Plantation includes native and fruit bearing species such as Jamun, Peru, Kokum, Sitaphal etc. Photographs showing the greenbelt development plantation and post plantation care is given below.



f) Environment Monitoring Program

The PP undertakes monitoring of quality of Air, Water & Noise through NABL accredited laboratory. Three sensor based Continuous Ambient Air Quality Monitoring System (CAAQMS) are installed one in upwind and two in downwind direction.



Greater Ferromet Plant



Devnamol Village



Bandoli village



Ambient Air Quality Monitoring



Noise Level Monitoring

The display of monitored Ambient Air Quality (AAQ) data along with other key environmental parameters is displayed on an LED display board, installed near the entrance of the project site, ensuring that the environmental monitoring results are clearly visible to the public and stakeholders. The photographs showing the LED display board is given below.





g) Road Maintenance by Motor Grader

Road maintenance by motor grader undertaken wherever required along the haul road to maintain haul roads in good condition.



h) Water management during monsoon:

The surface runoff is diverted into Settling ponds (2 Nos. - capacity 22600 m³) and de-silting of existing settling ponds is undertaken every year before monsoon.



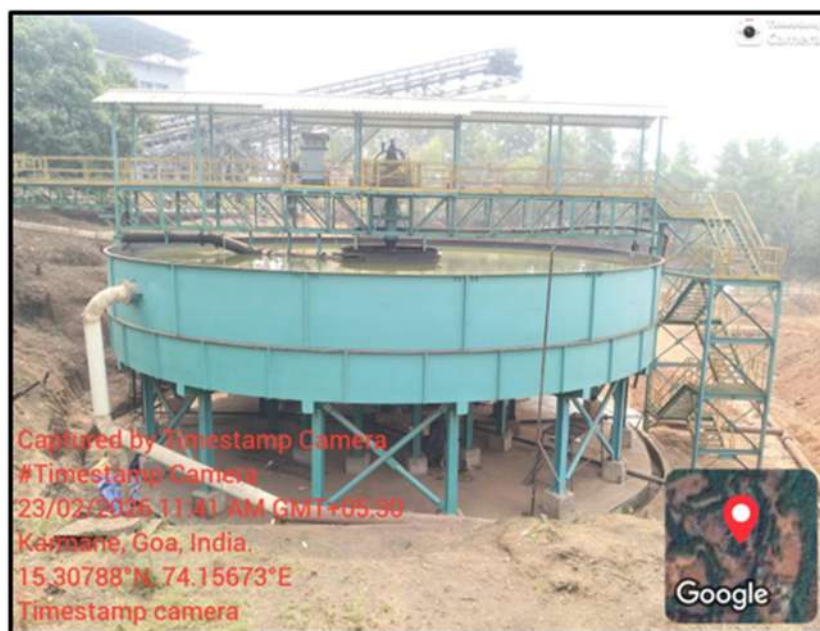
i) Tailing Management:

Construction of embankment for tailing stack.



j) Water treatment from Plant Process

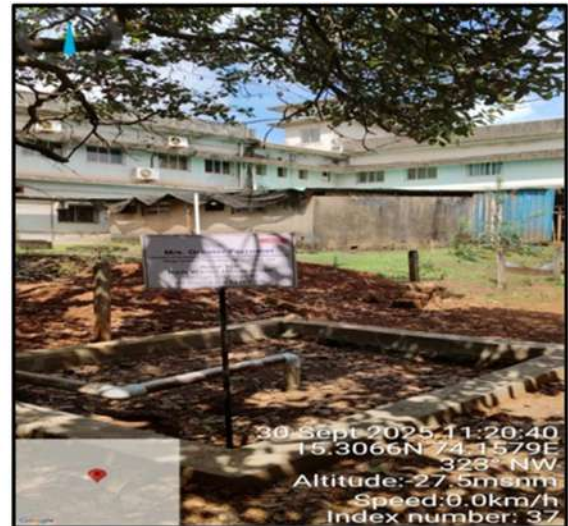
The tailing from the plant process is passed through a thickener to recover and reuse maximum water. Magnasol flocculants are used for sedimentation in Thickener.



Thickener for Recovery & Reuse of Plant Process Water

k) Rainwater harvesting:

Rooftop rainwater harvesting structure is constructed at the plant premises to augment ground water recharge.



Rainwater harvesting pit

l) **Solid waste management:**

Food waste generated from canteen is composted in-house through a compost pit constructed within the plant area to facilitate the proper disposal and treatment of biodegradable kitchen waste thus contributing to sustainable waste management and soil health improvement. The compost is used as manure for plantation. The photographs showing compost pit is given below.



Domestic waste waters is treated through an existing septic tank and soak pit system. The septic tank is cleaned and emptied through an authorized night soil tanker. Regular cleaning and maintenance of washrooms is undertaken.

m) **Hazardous Waste Management:**

Used oil falling under Hazardous waste Category 5.1 generated from the mining machinery is stored in leakproof barrel and will be disposed to a recycling agency

authorized by State Pollution Control Board. Further, waste containing oil residues falling under Hazardous waste category 5.2 will be disposed to M/s. Ponda Envocare at Pissurlem a CHWTSDF unit.

n) **Environment awareness & training:**

During the year 2025-26, the Project Proponent conducted an awareness program on the ban of Single-Use Plastics at a nearby Government School. A presentation was delivered to the students highlighting the adverse effects of single-use plastics on human health and the environment, supported by pictorial illustrations. The students were also informed about various eco-friendly alternatives to single-use plastics.



o) **Personal Protective Equipment's (PPE's)**

The workers working in the beneficiation plant area are provided with Personal Protection Equipment (PPE) such as Safety helmets, Safety shoes, goggles, gloves, etc. as per the norms of Factory Act.



p) Health check-up

Medical occupational health check up's of workers and officials have been carried out as required during the compliance period, October 2025 to March 2026.

q) Fire Safety

Portable fire extinguishers are provided in every unit as well as at office and workshop.

Photographs showing plantation



PLANTATION & AFTER CARE

RECEIPT

Received Cheque of an Rs. 90,000/- (Rupees Ninety Thousand Only) vide Cheque No. 005952 403229015 000040 29 dated, 27/06/2025 in the name of Dy. Conservator of Forests, North Goa Division, Ponda Goa from M/s. Greater Ferromet (Divison of Sociedade De Fomento Industrial Pvt. Ltd). Towards purchased Of 4500 Nos. mixed seedlings each cost Rs. 20/- from The Forest Nursery at Dharbandora.

Place :- Collem Goa.
Date :- 28/06/2025




(Ravi G. Shirodkar)
Range Forest Officer
Collem- Goa

List of Seedlings Purchased by M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Pvt. Ltd.) on dated. 27/06/2025.

Sr. No	Name of Seedlings	No. of Seedlings
1	Mrat	300
2	Tamon	200
3	Apto	200
4	Rito	300
5	Amla	200
6	Ghoting	300
7	Saton	300
8	Shisham	200
9	Chinch	200
10	Bhedus	400
11	Ramphal	50
12	Sitaphal	50
13	Dhup	100
14	Bamboo	200
15	Otam	50
16	Bel	50
17	Palas	200
18	Peru	100
19	Jamun	400
20	Mohagani	400
21	Kokum	300
Total		4500 Nos.

4500 Nos. seedlings x @Rs. 20/- = 90,000/-



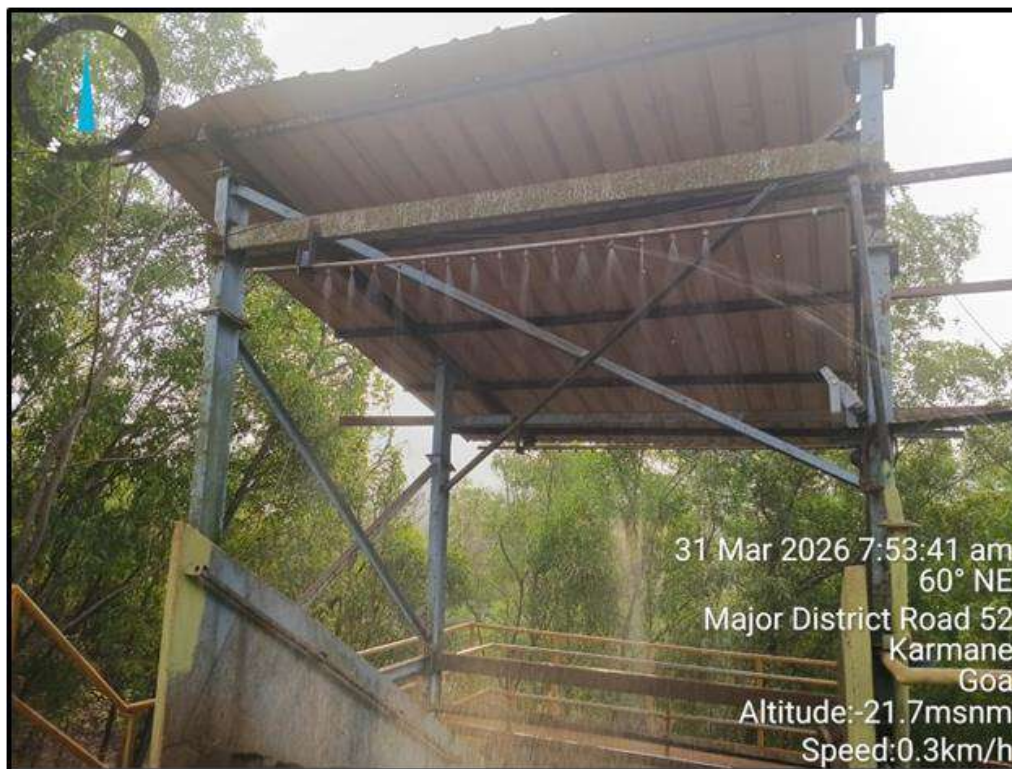

Range Forest Officer,
Collem-Goa

Photographs showing desilting of settling ponds

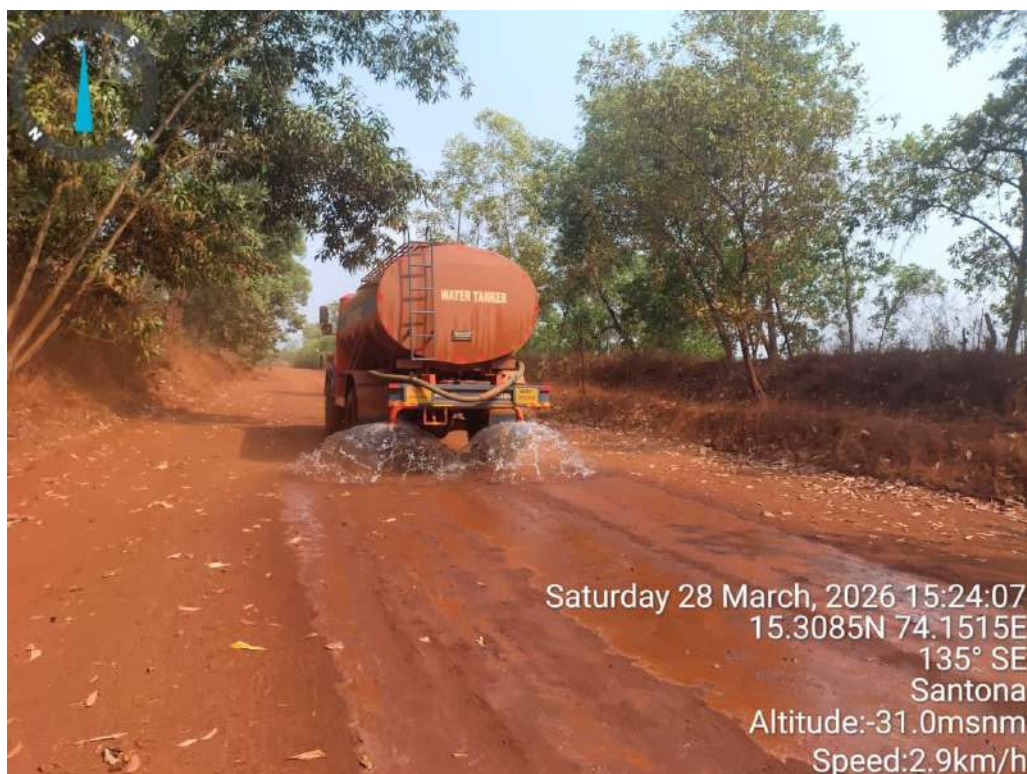


Annexure 4

Photographs of dust suppression measures



Water jets at hopper for dust suppression



Dust suppression and control by water tankers

Photograph of the installed CAAQMS



Greater Ferromet Plant



Devnamol Village



Bandoli village

**SHREEJI AQUA TREATMENT PVT. LTD.**

Innovative Environmental Solutions Under One Roof

Accredited by NABL as per ISO/IEC 17025:2017

Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt. of India, New Delhi

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Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.

ULR: TC138772500014232F

TEST REPORT

Lab Inward No. SATPL/25-26/03/MAAM/22AL	Date of Sampling : 10-11/03/2026
Client Name : M/s. GREATER FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD.) IRON ORE WET BENEFICIATION PLANT VILLAGE SANTONA, TALUKA - SANGUEM, SOUTH GOA DISTRICT, GOA	Start of Analysis : 11/03/2026
	End of Analysis : 16/03/2026
	Report Date : 16/03/2026
Sample Drawn By : SATPL Team on 10-11/03/2026	
Order / Reference : As per TRF dated 10/03/2026	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182	
Limits : National Ambient Air Quality Standards vide GSR 826 (E) Dated 18.11.2009	
Sampling Location : Bandoli Village - Buffer Zone (Upwind)	
Duration : 24 Hrs.	Time : 10:20 am to 10:20 am
Ambient Temperature[°C]: 33.0	Relative Humidity [%]: 60

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	8.46	≤ 80	µg/m ³	IS 5182(Part-2)2001 R 2022
2	Nitrogen Dioxide(NO ₂)	17.36	≤ 80	µg/m ³	IS 5182(Part-6)2006 R 2017
3	Particulate Matter PM ₁₀	58.74	≤ 100	µg/m ³	IS 5182 (Part 23)2006 R 2022
4	Particulate Matter PM _{2.5}	27.45	≤ 60	µg/m ³	IS 5182 (Part 24):2019
5	Ozone (O ₃)	<20.0	≤ 180(1	µg/m ³	IS 5182(Part-9): R2019
6	Ammonia (NH ₃)	9.75	≤ 400	µg/m ³	IS 5182(Part 25):2018

Remark: Reference to above mentioned monitoring report all the parameters are within the limits.**Disclaimer:** 'Information is supplied by customers represented in italic font'

For Shreeji Aqua Treatment Pvt. Ltd.



Sumeet

Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested. Page 1 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreejiagua.com Web: www.shreejiagua.com

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TEST REPORT

Lab Inward No. : SATPL/25-26/03/MAAM/22AL	Date of Sampling : 10-11/03/2026
Client Name : M/s. GREATER FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD.)	Start of Analysis : 11/03/2026
IRON ORE WET BENEFICIATION PLANT	End of Analysis : 16/03/2026
VILLAGE SANTONA, TALUKA - SANGUEM, SOUTH GOA DISTRICT, GOA	Report Date : 16/03/2026
Order / Reference: As per TRF dated 10/03/2026	Sample Drawn By : SATPL Team on 10-11/03/2026
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182	
Limits : National Ambient Air Quality Standards vide GSR 826 (E) Dated 18.11.2009	
Sampling Location : Bandoli Village - Buffer Zone (Upwind)	
Duration : 24 Hrs.	Time : 10:20 am to 10:20 am
Ambient Temperature[°C]: 33.0	Relative Humidity [%]: 60

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.44	≤ 04(1 hr.)	mg/m ³	IS 5182(Part-10):1999 R2019
8	Lead as (Pb)	<0.01	≤ 1.0	µg/m ³	IS 5182(Part-22):2004 R2019
9	Benzene (C ₆ H ₆)	<0.1	≤ 05	µg/m ³	IS 5182 (Part 11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<1.0	≤ 01	ng/m ³	IS 5182(Part-12):2004 R2019
11	Arsenic (As)	<1.0	≤ 06	ng/m ³	CPCB Guidelines Volume-1:2012
12	Nickel (Ni)	<0.5	≤ 20	ng/m ³	IS 5182(Part-26):2020

Remark: Reference to above mentioned monitoring report all the parameter are within the limits.

Disclaimer: 'Information is supplied by customers represented in italic font'

EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
160504060	Ambient air sampler-2	SATPL/AR/AA5-02/123	25031301/06	18.03.2025	17.03.2026
Q886998	CO Meter	SATPL/AR/COM /13	ATS-2024-25/101	19.03.2025	18.03.2026
55627	Digital Electronic Balance	SATPL/AR/SMWB -01 /144	FSC/2602/1601/073	17.02.26	16.02.27
NA	Digital Spectrophotometer Model	SATPL/WT/UV /30	----	Inhouse Calibration	
2074	Inductive coupled plasma	SATPL/WT/ICP /29	-----	Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



Managing Director
Authorized Signatory

The results relate to sample tested.

End of Test Report—

Page 2 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4 Shreeji Terrace Apts. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No. 1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura, 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreeji aqua.com Web: www.shreeji aqua.com

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ULR: TC138772500014233F

TEST REPORT

Lab Inward No. SATPL/25-26/03/MAAM/22AM	Date of Sampling : 10-11/03/2026
Client Name : M/s. GREATER FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD.) IRON ORE WET BENEFICIATION PLANT VILLAGE SANTONA, TALUKA - SANGUEM, SOUTH GOA DISTRICT, GOA	Start of Analysis : 11/03/2026
	End of Analysis : 16/03/2026
	Report Date : 16/03/2026
	Sample Drawn By : SATPL Team on 10-11/03/2026
Order / Reference : As per TRF dated 10/03/2026	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182	
Limits : National Ambient Air Quality Standards vide GSR 826 (E) Dated 18.11.2009	
Sampling Location : Core Zone (Downwind)	
Duration : 24 Hrs.	Time : 10:50 am to 10:50 am
Ambient Temperature[°C]: 33.0	Relative Humidity [%]: 60

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	10.42	≤ 80	µg/m ³	IS 5182(Part-2)2001 R 2022
2	Nitrogen Dioxide(NO ₂)	19.05	≤ 80	µg/m ³	IS 5182(Part-6)2006 R 2017
3	Particulate Matter PM ₁₀	55.68	≤ 100	µg/m ³	IS 5182 (Part 23)2006 R 2022
4	Particulate Matter PM _{2.5}	24.12	≤ 60	µg/m ³	IS 5182 (Part 24):2019
5	Ozone (O ₃)	<20.0	≤ 180(1 hr.)	µg/m ³	IS 5182(Part-9): R2019
6	Ammonia (NH ₃)	11.0	≤ 400	µg/m ³	IS 5182(Part 25):2018

Remark: Reference to above mentioned monitoring report all the parameters are within the limits.

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For Shreeji Aqua Treatment Pvt. Ltd.

S. J. M. K.

Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&A, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No. 1, Shahi Ind. Park-1, Vadodara-Savli, Lamdapura, 391 775 Dist. Vadodra

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TEST REPORT

Lab Inward No. : SATPL/25-26/03/MAAM/22AM	Date of Sampling : 10-11/03/2026
Client Name : M/s. GREATER FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD.)	Start of Analysis : 11/03/2026
IRON ORE WET BENEFICIATION PLANT	End of Analysis : 16/03/2026
VILLAGE SANTONA, TALUKA - SANGUEM, SOUTH GOA DISTRICT, GOA	Report Date : 16/03/2026
	Sample Drawn By : SATPL Team on 10-11/03/2026

Order / Reference: As per TRF dated 10/03/2026

Monitoring For : Ambient Air Monitoring

Sampling Procedure: As per IS 5182

Limits : National Ambient Air Quality Standards vide GSR 826 (E) Dated 18.11.2009

Sampling Location: Core Zone (Downwind)

Duration: 24 Hrs.

Time: 10:50 am to 10:50 am

Ambient Temperature [°C]: 33.0

Relative Humidity [%]: 60

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.39	≤ 04(1 hr.)	mg/m ³	IS 5182(Part-10):1999 R2019
8	Lead as (Pb)	<0.01	≤ 1.0	µg/m ³	IS 5182(Part-22):2004 R2019
9	Benzene (C ₆ H ₆)	<0.1	≤ 05	µg/m ³	IS 5182 (Part 11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<1.0	≤ 01	ng/m ³	IS 5182(Part-12):2004 R2019
11	Arsenic (As)	<1.0	≤ 06	ng/m ³	CPCB Guidelines Volume-1:2012
12	Nickel (Ni)	<0.5	≤ 20	ng/m ³	IS 5182(Part-26):2020

Remark: Reference to above mentioned monitoring report all the parameter are within the limits.

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
201204156	Ambient air sampler-3	SATPL/AR/AAS-03/124	25031301/07	18.03.2025	17.03.2026
Q886998	CO Meter	SATPL/AR/COM /13	ATS-2024-25/101	19.03.2025	18.03.2026
55627	Digital Electronic Balance	SATPL/AR/SMWB -01 /144	FSC/2602/1601/073	17.02.26	16.02.27
NA	Digital Spectrophotometer Model	SATPL/WT/UV /30	----	Inhouse Calibration	
2074	Inductive coupled plasma	SATPL/WT/ICP /29	-----	Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



Managing Director
Authorized Signatory

--- End of Test Report ---

The results relate to sample tested.

Page 2 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

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TC-13877

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ULR: TC138772500014234F

TEST REPORT

Lab Inward No. SATPL/25-26/03/MAAM/22AN	Date of Sampling : 10-11/03/2026
Client Name : M/s. GREATER FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD.)	Start of Analysis : 11/03/2026
IRON ORE WET BENEFICIATION PLANT	End of Analysis : 16/03/2026
VILLAGE SANTONA, TALUKA - SANGUEM, SOUTH GOA DISTRICT, GOA	Report Date : 16/03/2026
Order / Reference : As per TRF dated 10/03/2026	Sample Drawn By : SATPL Team on 10-11/03/2026
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182	
Limits : National Ambient Air Quality Standards vide GSR 826 (E) Dated 18.11.2009	
Sampling Location : Devnamol Village	
Duration : 24 Hrs.	Time : 11:20 am to 11:20 am
Ambient Temperature[°C]: 33.0	Relative Humidity [%]: 60

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	9.12	≤ 80	µg/m ³	IS 5182(Part-2)2001 R 2022
2	Nitrogen Dioxide(NO ₂)	20.01	≤ 80	µg/m ³	IS 5182(Part-6)2006 R 2017
3	Particulate Matter PM ₁₀	49.99	≤ 100	µg/m ³	IS 5182 (Part 23)2006 R 2022
4	Particulate Matter PM _{2.5}	22.04	≤ 60	µg/m ³	IS 5182 (Part 24):2019
5	Ozone (O ₃)	<20.0	≤ 180(1 hr.)	µg/m ³	IS 5182(Part-9): R2019
6	Ammonia (NH ₃)	10.40	≤ 400	µg/m ³	IS 5182(Part 25):2018

Remark: Reference to above mentioned monitoring report all the parameters are within the limits.

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For Shreeji Aqua Treatment Pvt. Ltd.



Managing Director
Authorized Signatory

Sumeet

A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 2

Pune: Plot No. 8-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura, 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreejiagua.com Web: www.shreejiagua.com

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TEST REPORT

Lab Inward No. : SATPL/25-26/03/MAAM/22AN	Date of Sampling : 10-11/03/2026
Client Name : M/s. GREATER FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD.) IRON ORE WET BENEFICIATION PLANT VILLAGE SANTONA, TALUKA - SANGUEM, SOUTH GOA DISTRICT, GOA	Start of Analysis : 11/03/2026 End of Analysis : 16/03/2026 Report Date : 16/03/2026 Sample Drawn By : SATPL Team on 10-11/03/2026
Order / Reference: As per TRF dated 10/03/2026	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182	
Limits : National Ambient Air Quality Standards vide GSR 826 (E) Dated 18.11.2009	
Sampling Location : Devnamol Village	
Duration : 24 Hrs.	Time : 11:20 am to 11:20 am
Ambient Temperature[°C]: 33.0	Relative Humidity [%]: 60

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.46	≤ 04(1 hr.)	mg/m ³	IS 5182(Part-10):1999 R2019
8	Lead as (Pb)	<0.01	≤ 1.0	µg/m ³	IS 5182(Part-22):2004 R2019
9	Benzene (C ₆ H ₆)	<0.1	≤ 05	µg/m ³	IS 5182 (Part 11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<1.0	≤ 01	ng/m ³	IS 5182(Part-12):2004 R2019
11	Arsenic (As)	<1.0	≤ 06	ng/m ³	CPCB Guidelines Volume-1:2012
12	Nickel (Ni)	<0.5	≤ 20	ng/m ³	IS 5182(Part-26):2020

Remark: Reference to above mentioned monitoring report all the parameter are within the limits.

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
Q886998	Ambient Air Sampler-4	SATPL/AR/AA5-04/125	25031301/08	18.03.2025	17.03.2026
55627	CO Meter	SATPL/AR/COM /13	ATS-2024-25/101	19.03.2025	18.03.2026
NA	Digital Electronic Balance	SATPL/AR/SMWB -01 /144	FSC/2602/1601/073	17.02.26	16.02.27
2074	Digital Spectrophotometer Model	SATPL/WT/UV /30	----	Inhouse Calibration	
	Inductive coupled plasma	SATPL/WT/ICP /29	-----	Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



Managing Director
Authorized Signatory

-----End of Test Report-----

The results relate to sample tested.

Page 2 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 18/4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune-411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

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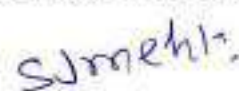


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ULR: TC138772500014235F

TEST REPORT

Lab Inward No. SATPL/25-26/03/MAAM/22AO		Date of Sampling : 10-11/03/2026			
Client Name : M/s. GREATER FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD.) IRON ORE WET BENEFICIATION PLANT VILLAGE SANTONA, TALUKA - SANGUEM, SOUTH GOA DISTRICT, GOA		Start of Analysis : 11/03/2026			
		End of Analysis : 16/03/2026			
		Report Date : 16/03/2026			
Order / Reference : As per TRF dated 10/03/2026		Sample Drawn By : SATPL Team on 10-11/03/2026			
Monitoring For : Ambient Air Monitoring					
Sampling Procedure : As per IS 5182					
Limits : National Ambient Air Quality Standards vide GSR 826 (E) Dated 18.11.2009					
Sampling Location : <i>Cormonem Village</i>					
Duration : 24 Hrs.		Time : 11:55 am to 11:55 am			
Ambient Temperature[°C]: 33.0		Relative Humidity [%]: 60			
RESULTS					
Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	7.81	≤ 80	µg/m ³	IS 5182(Part-2)2001 R 2022
2	Nitrogen Dioxide(NO ₂)	15.55	≤ 80	µg/m ³	IS 5182(Part-6)2006 R 2017
3	Particulate Matter PM ₁₀	56.94	≤ 100	µg/m ³	IS 5182 (Part 23)2006 R 2022
4	Particulate Matter PM _{2.5}	26.20	≤ 60	µg/m ³	IS 5182 (Part 24):2019
5	Ozone (O ₃)	<20.0	≤ 180(1 hr.)	µg/m ³	IS 5182(Part-9): R2019
6	Ammonia (NH ₃)	9.90	≤ 400	µg/m ³	IS 5182(Part 25):2018
Remark: Reference to above mentioned monitoring report all the parameters are within the limits.					
Disclaimer: <i>'Information is supplied by customers represented in italic font'</i>					
				For Shreeji Aqua Treatment Pvt. Ltd.	
					
				Managing Director Authorized Signatory	



A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: T&A, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chkhali, Pune: 411019

Vadodra: Plot No.1, Shah Ind. Park 1, Vadodra-Savli, Lamdapura. 391 775 Dist. Vadodra

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TEST REPORT

Lab Inward No. : SATPL/25-26/03/MAAM/22AO	Date of Sampling : 10-11/03/2026
Client Name : M/s. GREATER FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD.)	Start of Analysis : 11/03/2026
IRON ORE WET BENEFICIATION PLANT	End of Analysis : 16/03/2026
VILLAGE SANTONA, TALUKA - SANGUEM, SOUTH GOA DISTRICT, GOA	Report Date : 16/03/2026
	Sample Drawn By : SATPL Team on 10-11/03/2026

Order / Reference: As per TRF dated 10/03/2026

Monitoring For : Ambient Air Monitoring

Sampling Procedure : As per IS 5182

Limits : National Ambient Air Quality Standards vide GSR 826 (E) Dated 18.11.2009

Sampling Location : *Cormonem Village*

Duration : 24 Hrs.

Time : 11:55 am to 11:55 am

Ambient Temperature [°C]: 33.0

Relative Humidity [%]: 60

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.43	≤ 04(1 hr.)	mg/m ³	IS 5182(Part-10):1999 R2019
8	Lead as (Pb)	<0.01	≤ 1.0	µg/m ³	IS 5182(Part-22):2004 R2019
9	Benzene (C ₆ H ₆)	<0.1	≤ 05	µg/m ³	IS 5182 (Part 11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<1.0	≤ 01	ng/m ³	IS 5182(Part-12):2004 R2019
11	Arsenic (As)	<1.0	≤ 06	ng/m ³	CPCB Guidelines Volume-1:2012
12	Nickel (Ni)	<0.5	≤ 20	ng/m ³	IS 5182(Part-26):2020

Remark: Reference to above mentioned monitoring report all the parameter are within the limits.

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
210604173	Ambient Air sample-7	SATPL/AIR/AAS/36	25031301/01	18.03.2025	17.03.2026
QBB6998	CO Meter	SATPL/AR/COM/13	ATS-2024-25/101	19.03.2025	18.03.2026
55627	Digital Electronic Balance	SATPL/AR/SMWB-01/144	FSC/2602/1601/073	17.02.26	16.02.27
NA	Digital Spectrophotometer Model	SATPL/WT/UV/30	----	Inhouse Calibration	
2074	Inductive coupled plasma	SATPL/WT/ICP/29	-----	Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



Managing Director
Authorized Signatory

-----End of Test Report-----

The results relate to sample tested.

Page 2 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184 Shreeji Terrace Apt, Plot No. 53, Purna Nagar, Chikhali, Pune 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

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TEST REPORT

Lab Inward No. : SATPL/25-26/03/MFEM/26AR,26AS,26AT	Date of Sampling: 13/03/2026
Client Name: M/s. GREATER FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD.) IRON ORE WET BENEFICIATION PLANT	Report Date: 16/03/2026
VILLAGE SANTONA, TALUKA - SANGUEM, SOUTH GOA DISTRICT, GOA	Sample Drawn By: SATPL Representative

Order / Reference: As per TRF dated 13/03/2026

Monitoring For : FUGITIVE EMISSION MONITORING

Sampling Procedure : As per respective NIOSH/IS Guidelines

Limits : As per The Environmental (Protection) Rules 1986 as amended by G.S.R.662(E), dated 19th oct 2020.

RESULTS

Sr. No.	Report No.	Sampling Location	Parameters
			Particulate Matter (PM) ($\mu\text{g}/\text{m}^3$)
1	SATPL/25-26/03/MFEM/26AR	Raw Material Handling Area	818
2	SATPL/25-26/03/MFEM/26AS	Storage Area	728
3	SATPL/25-26/03/MFEM/26AT	Transfer Point	678
Limits*			<1200
Test methods of analyzed parameters			IS 5182 (Part 23) 2006 R 2022

REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
160504060	Ambient air sampler-2	SATPL/AR/AAS-02/123	25031301/06	18.03.2025	17.03.2026
D307534576	Digital Electronic Balance	SATPL/WT/WL/39	PSC/2503/1801/005	15.03.2025	14.03.2026

For Shreeji Aqua Treatment Pvt. Ltd.



S. J. J. J.
Managing Director
Authorized Signatory

End of Test Report----

The results relate to sample tested.

Page 1 of 1

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: T&A Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chkhali, Pune-411019

Vadodra: Plot No. 1, Shah Ind. Park-1, Vadodra-Savli, Lamdapura, 391 775 Dist. Vadodra.

Customer Care No.: +919225247365 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

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ULR No.: TC138772500014238F**TEST REPORT**

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MSW/22AS		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Surface Water - Kalay River Upstream & Downstream Water Sample		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)
Sampling Procedure	IS 3025 (Part 1)		
Limits	Surface Water Quality Standards Class -C (as per IS:2296)		

Chemical Testing

Sr.No	Parameters	Results		Limits	Unit	Method
		SW-1	SW-2			
1	pH Value	6.96	6.90	6.5-8.5	----	IS 3025 (Part 11):2022
2	Total Dissolved Solids	32.0	36.0	1500.0 Max	mg/L	IS 3025 (Part 16): 2023
3	Sulphate as SO ₄	0.65	0.73	200.0 Max	mg/L	IS 3025: (Part 24/Sec 1) :R2022
4	Total Hardness as CaCO ₃	14.0	16.0	NS	mg/L	IS 3025 (Part 21): 2009 R 2019
5	Chloride as Cl	5.01	6.01	600.0 Max	mg/L	IS 3025 (Part 32): 1988 R 2019
6	Nitrate as NO ₃	0.10	0.13	50.0 Max	mg/L	IS 3025 (Part 34):1988 R 2019
7	Hexavalent Chromium	<0.1	<0.1	0.05 Max	mg/L	APHA 24th edition: 3500Cr- B:2023
8	Iron as Fe	0.097	0.102	50.0 Max	mg/L	APHA, 24 th Edition : 3500Fe (Part B)2023
9	Zinc as Zn	<0.01	<0.01	15.0 Max	mg/L	IS 3025 (Part 2): 2004 R2019
10	Cadmium as Cd	<0.003	<0.003	0.01 Max	mg/L	IS 3025 (Part 2): 2004 R2019
11	Lead as Pb	<0.01	<0.01	0.1 Max	mg/L	IS 3025 (Part 2): 2004 R2019
12	Copper as Cu	0.012	0.015	1.5 Max	mg/L	IS 3025 (Part 2): 2004 R2019
13	Phenolic compound as C ₆ H ₅ OH	<0.001	<0.001	0.005 Max	mg/L	IS 3025 (Part 43):1992 R 2022

Note: NA-Not Applicable. NS: Not Specified.

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'



For Shreeji Aqua Treatment Pvt. Ltd.

S. Mehra

Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 3

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura, 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreeji aqua.com Web: www.shreeji aqua.com

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TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MSW/22AS		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Surface Water - Kalay River Upstream & Downstream Water Sample		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)
Sampling Procedure	IS 3025 (Part 1)		
Limits	Surface Water Quality Standards Class -C (as per IS:2296)		

Chemical Testing

Sr.No	Parameters	Results		Limits	Unit	Method
		SW-1	SW-2			
14	Selenium as Se	<0.01	<0.01	0.05 Max	mg/L	IS 3025 (Part 2): 2004 R2019
15	Cyanide as CN	<0.05	<0.05	0.05 Max	mg/L	APHA 24 th Edition: 2023:4500CN (Part E)
16	Total arsenic as As	<0.01	<0.01	0.2 Max	mg/L	IS 3025 (Part 37):1988 R2019
17	Colour	<1.0	<1.0	300.0 Max	Hazen	IS 3025 (Part 4): 1983 R 2021
18	Fluorides as F	<0.1	<0.1	1.5 Max	mg/L	IS 3025 (Part 60): 2008 R 2019
19	Chemical Oxygen Demand (COD)	9.62	16.03	NS	mg/L	APHA, 24 th Edition 2023/ 5220-C
20	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	1.0	1.7	3.0 Max	mg/L	IS 3025 (Part 44):2023
21	Total Suspended Solids (TSS)	8.0	12.0	NS	mg/L	APHA, 24 th Edition 2023/ 2540-D
22	Oil & Grease	BDL	BDL	0.1 Max	mg/L	IS 3025 (Part 39):2021
23	Dissolve Oxygen as DO	5.6	5.5	4.0 Min	mg/L	APHA 24 th edition: 4500O-B:2023
24	Anionic detergents (as MBAS)	<0.1	<0.1	1.0 Max	mg/L	IS 3025 (Part 68): 2019

Note: NA-Not Applicable. NS-Not Specified. BDL-Below Detection Limit.

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'



For Shreeji Aqua Treatment Pvt. Ltd.

*S. S. S. S.*Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 2 of 3



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TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MSW/22AS		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Surface Water - Kalay River Upstream & Downstream Water Sample		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Sterile Plastic Bottle	Sample Quantity	250 mL(Each)
Sampling Procedure	IS (1622):1981R2019		
Limits	Surface Water Quality Standards Class -C (as per IS:2296)		

Biological Testing

Sr.No	Parameters	Results		Limits	Unit	Method
		SW-1	SW-2			
1	Total coliform bacteria	11.0	17.0	5000.0	MPN/100 mL	IS (1622):1981R2019

Note: NA-Not Applicable.

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'

Sample Details

Sr. No.	Location	Code No.
01	Kalay River Upstream Water Sample	SW-1
02	Kalay River Downstream Water Sample	SW-2



For Shreeji Aqua Treatment Pvt. Ltd.

Atul Kalge
(Microbiology Department)
Authorized Signatory

-----End of Test Report-----

The results relate to sample tested.

Page 3 of 3

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411039

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

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TC-13877

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.
ULR No.: TC138772500014239F**TEST REPORT**

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MSW/22AT		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Surface Water - Zuari River & Dudhsagar River Water Sample		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)
Sampling Procedure	IS 3025 (Part 1)		
Limits	Surface Water Quality Standards Class -C (as per IS:2296)		

Chemical Testing

Sr.No	Parameters	Results		Limits	Unit	Method
		SW-3	SW-4			
1	pH Value	7.14	7.05	6.5-8.5	-----	IS 3025 (Part 11):2022
2	Total Dissolved Solids	56.0	60.0	1500.0 Max	mg/L	IS 3025 (Part 16): 2023
3	Sulphate as SO ₄	1.94	2.18	200.0 Max	mg/L	IS 3025: (Part 24/Sec 1) :R2022
4	Total Hardness as CaCO ₃	24.0	28.0	NS	mg/L	IS 3025 (Part 21): 2009 R 2019
5	Chloride as Cl	14.02	15.03	600.0 Max	mg/L	IS 3025 (Part 32): 1988 R 2019
6	Nitrate as NO ₃	0.17	0.24	50.0 Max	mg/L	IS 3025 (Part 34):1988 R 2019
7	Hexavalent Chromium	<0.1	<0.1	0.05 Max	mg/L	APHA 24th edition: 3500Cr- B:2023
8	Iron as Fe	0.109	0.117	50.0 Max	mg/L	APHA, 24 th Edition : 3500Fe (Part B)2023
9	Zinc as Zn	<0.01	<0.01	15.0 Max	mg/L	IS 3025 (Part 2): 2004 R2019
10	Cadmium as Cd	<0.003	<0.003	0.01 Max	mg/L	IS 3025 (Part 2): 2004 R2019
11	Lead as Pb	<0.01	<0.01	0.1 Max	mg/L	IS 3025 (Part 2): 2004 R2019
12	Copper as Cu	0.018	0.022	1.5 Max	mg/L	IS 3025 (Part 2): 2004 R2019
13	Phenolic compound as C ₆ H ₅ OH	<0.001	<0.001	0.005 Max	mg/L	IS 3025 (Part 43):1992 R 2022

Note: NA-Not Applicable. NS: Not Specified.

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: *Information supplied by customers represented in italic font*

For Shreeji Aqua Treatment Pvt. Ltd.

*S. J. Jethi*Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 3

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TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MSW/22AT		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Surface Water – Zuari River & Dudhsagar River Water Sample		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)
Sampling Procedure	IS 3025 (Part 1)		
Limits	Surface Water Quality Standards Class –C (as per IS:2296)		

Chemical Testing

Sr.No	Parameters	Results		Limits	Unit	Method
		SW-3	SW-4			
14	Selenium as Se	<0.01	<0.01	0.05 Max	mg/L	IS 3025 (Part 2): 2004 R2019
15	Cyanide as CN	<0.05	<0.05	0.05 Max	mg/L	APHA 24 th Edition: 2023:4500CN (Part E)
16	Total arsenic as As	<0.01	<0.01	0.2 Max	mg/L	IS 3025 (Part 37):1988 R2019
17	Colour	<1.0	<1.0	300.0 Max	Hazen	IS 3025 (Part 4):1983 R 2021
18	Fluorides as F	<0.1	<0.1	1.5 Max	mg/L	IS 3025 (Part 60): 2008 R 2019
19	Chemical Oxygen Demand (COD)	12.83	16.03	NS	mg/L	APHA, 24 th Edition 2023/ 5220-C
20	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	1.4	1.9	3.0 Max	mg/L	IS 3025 (Part 44):2023
21	Total Suspended Solids (TSS)	8.0	12.0	NS	mg/L	APHA, 24 th Edition 2023/ 2540-D
22	Oil & Grease	BDL	BDL	0.1 Max	mg/L	IS 3025 (Part 39):2021
23	Dissolve Oxygen as DO	5.6	5.5	4.0 Min	mg/L	APHA 24 th edition: 4500O-B:2023
24	Anionic detergents (as MBAS)	<0.1	<0.1	1.0 Max	mg/L	IS 3025 (Part 68): 2019

Note: NA-Not Applicable. NS-Not Specified. BDL-Below Detection Limit.

Remark: -The sample analyzed for above parameters is within the prescribed limits

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For Shreeji Aqua Treatment Pvt. Ltd.

*S. Jonekar*Managing Director
Authorized Signatory

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Page 2 of 3

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TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MSW/22AT		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Surface Water - Zuari River & Dudhsagar River Water Sample		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Sterile Plastic Bottle	Sample Quantity	250 mL(Each)
Sampling Procedure	IS (1622):1981R2019		
Limits	Surface Water Quality Standards Class -C (as per IS:2296)		

Biological Testing

Sr.No	Parameters	Results		Limits	Unit	Method
		SW-3	SW-4			
1	Total coliform bacteria	17.0	21.0	5000.0	MPN/100 mL	IS (1622):1981R2019

Note: NA-Not Applicable.

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'

Sample Details

Sr. No.	Location	Code No.
01	Zuari River Water Sample	SW-3
02	Dudhsagar River Water Sample	SW-4



For Shreeji Aqua Treatment Pvt. Ltd.

Atul Gore
(Microbiology Department)
Authorized Signatory

-----End of Test Report-----

The results relate to sample tested.

Page 3 of 3

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ULR No.: TC138772500014240F

TEST REPORT

16/03/2026

16/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AU		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Ground Water		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)
Sampling Procedure	IS 3025 (Part 1)		
Limits	As Per IS 10500:2012 Standards		

Chemical Testing

Sr.No	Parameters	Results			Limits	Unit	Method
		GW-1	GW-2	GW-3			
1	pH Value	6.91	6.85	6.81	6.5-8.5	-----	IS 3025 (Part 11):2022
2	Turbidity	<1.0	<1.0	<1.0	1.0 Max	NTU	IS 3025 (Part 10) :1984 R 2023
3	Total Dissolved Solids	44.0	40.0	44.0	500.0 Max	mg/L	IS 3025 (Part 16): 2023
4	Sulphate as SO ₄	1.21	1.13	1.37	200.0 Max	mg/L	IS 3025: (Part 24/Sec 1) :R2022
5	Total alkalinity as CaCO ₃	25.0	20.0	20.0	200.0 Max	mg/L	IS 3025 (Part 23): 2023
6	Total Hardness as CaCO ₃	20.0	18.0	24.0	200.0 Max	mg/L	IS 3025 (Part 21): 2009 R 2019
7	Calcium as Ca	5.61	4.81	6.41	75.0 Max	mg/L	IS 3025 (Part 40): 1991 R 2019
8	Magnesium as Mg	1.46	1.46	1.94	30.0 Max	mg/L	IS 3025 (Part 46) R 2023
9	Chloride as Cl	11.02	9.02	15.03	250.0 Max	mg/L	IS 3025 (Part 32): 1988 R 2019
10	Nitrate as NO ₃	0.19	0.18	0.18	45.0 Max	mg/L	IS 3025 (Part 34):1988 R 2019
11	Lead as Pb	<0.01	<0.01	<0.01	0.01 Max	mg/L	IS 3025 (Part 2): 2004 R2019
12	Iron as Fe	<0.1	<0.1	<0.1	1.0 Max	mg/L	APHA, 24 th Edition : 3500Fe (Part B)2023
13	Free residual chlorine	<0.2	<0.2	<0.2	0.2 Min	mg/L	APHA 24th Edition (4500-Cl--B)2023
14	Boron as B	<0.01	<0.01	<0.01	0.5 Max	mg/L	IS 3025 (Part 2): 2004 R2019
15	Zinc as Zn	0.015	0.013	0.017	5.0 Max	mg/L	IS 3025 (Part 2): 2004 R2019

Note: NA-Not Applicable. NTU: Nephelometric Turbidity unit

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'

For Shreeji Aqua Treatment Pvt. Ltd.



S. Mehra

Managing Director
Authorized Signatory

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Page 1 of 4



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TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AU						
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.						
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.						
Order / Reference	As Per TRF dated 10/03/2026						
Sample declaration as provided by customer :							
Nature of Sample	Ground Water						
Batch No.	NA						
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026				
Start of Analysis	11/03/2026	End of Analysis	16/03/2026				
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)				
Sampling Procedure	IS 3025 (Part 1)						
Limits	As Per IS 10500:2012 Standards						
Chemical Testing							
Sr.No	Parameters	Results			Limits	Unit	Method
		GW-1	GW-2	GW-3			
16	Cadmium as Cd	<0.003	<0.003	<0.003	0.003 Max	mg/L	IS 3025 (Part 2): 2004 R2019
17	Cyanide as CN	<0.05	<0.05	<0.05	0.05 Max	mg/L	APHA 24 th Edition:2023:4500CN (Part E)
18	Nickel as Ni	<0.01	<0.01	<0.01	0.02 Max	mg/L	IS 3025 (Part 2): 2004 R2019
19	Hexavalent Chromium	<0.01	<0.01	<0.01	NS	mg/L	APHA 24 th edition: 3500Cr- B:2023
20	Aluminium as Al	<0.01	<0.01	<0.01	0.03 Max	mg/L	IS 3025 (Part 2): 2004 R2019
21	Manganese as Mn	<0.01	<0.01	<0.01	0.1 Max	mg/L	IS 3025 (Part 2): 2004 R2019
22	Phenolic compound as C ₆ H ₅ OH	<0.001	<0.001	<0.001	0.001 Max	mg/L	IS 3025 (Part 43):1992 R 2022
23	Copper as Cu	<0.01	<0.01	<0.01	0.05 Max	mg/L	IS 3025 (Part 2): 2004 R2019
24	Sodium as Na	0.19	0.23	0.18	NS	mg/L	APHA 24 th Edition:2023/3500-Na-B
25	Potassium as K	0.10	0.11	0.11	NS	mg/L	APHA 24 th Edition:2023/3500-K-B
26	Conductivity	65.9	64.0	69.8	NS	us/cm	APHA, 24 th Edition 2023/2510-B

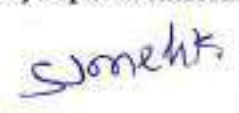
Note: NA-Not Applicable. NS-Not Specified.

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'



For Shreeji Aqua Treatment Pvt. Ltd.


 Managing Director
 Authorized Signatory

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Page 2 of 4

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184 Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodra: Plot No. 1, Shah Ind. Park-1, Vadodra-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreejiagua.com Web: www.shreejiagua.com

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TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AU		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Ground Water		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)
Sampling Procedure	IS 3025 (Part 1)		
Limits	As Per IS 10500:2012 Standards		

Chemical Testing

Sr.No	Parameters	Results			Limits	Unit	Method
		GW-1	GW-2	GW-3			
27	Fluorides as F	<0.1	<0.1	<0.1	1.0 Max	mg/L	IS 3025 (Part 60) : 2008 R 2019
28	Mercury as Hg	<0.001	<0.001	<0.001	0.001 Max	mg/L	IS 3025: (Part 48):1994 R2020
29	Molybdenum as Mo	<0.01	<0.01	<0.01	0.07 Max	mg/L	IS 3025 (Part 2): 2004 R2019
30	Selenium as Se	<0.01	<0.01	<0.01	0.01 Max	mg/L	IS 3025 (Part 2): 2004 R2019
31	Silver as Ag	<0.01	<0.01	<0.01	0.1 Max	mg/L	IS 3025 (Part 2): 2004 R2019
32	Total arsenic as As	<0.01	<0.01	<0.01	0.01 Max	mg/L	IS 3025 (Part 37):1988 R2019
33	Barium as Ba	<0.01	<0.01	<0.01	0.7 Max	mg/L	IS 3025 (Part 2): 2004 R2019
34	Colour	<1.0	<1.0	<1.0	5.0 Max	Hazen	IS 3025 (Part 4) :1983 R 2021
35	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-----	IS 3025(Part 5):1983 R 2018
36	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-----	IS 3025(Part 7):1984 R 2017
37	Mineral Oil	<0.01	<0.01	<0.01	0.5 Max	mg/L	IS 3025(Part 39)R2021
38	Sulphide as H ₂ S	<0.05	<0.05	<0.05	0.05 Max	mg/L	IS 3025: (Part 29) : 1986 R2022
39	Chloramines as Cl ₂	<1.0	<1.0	<1.0	4.0 Max	mg/L	APHA 24 th edition 4500-Cl-F/2023
40	Anionic detergents (as MBAS)	<0.1	<0.1	<0.1	0.2 Max	mg/L	IS 3025 (Part 68): 2019
41	Ammonia (as total ammonia-N)	<0.07	<0.07	<0.07	0.5 Max	mg/L	IS 3025 (Part 34):1988 R 2019
42	Temperature	25.5	25.5	25.5	NS	°C	APHA, 24 th Edition 2023/2550-B

Note: NA-Not Applicable. NS-Not Specified

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'



For Shreeji Aqua Treatment Pvt. Ltd.

Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 3 of 4

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Rimpri-Chinchwad, Maharashtra-411018.

Lab: 1&4, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhañ, Pune: 411019

Vadodra: Plot No.1, Shah Ind. Park-1, Vadodra-Savli, Lamdapura. 391 775 Dist. Vadodra

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TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AU		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Ground Water		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Sterile Plastic Bottle	Sample Quantity	250 mL(Each)
Sampling Procedure	IS (1622):1981R2019		
Limits	NA		

Biological Testing

Sr.No	Parameters	Results			Limits	Unit	Method
		GW-1	GW-2	GW-3			
1	Total coliform bacteria	<2.0	<2.0	<2.0	NA	MPN/100 ml	IS (1622):1981R2019
2	E. coli	<2.0	<2.0	<2.0	NA	MPN/100 ml	IS (1622):1981R2019

Note: NA-Not Applicable.

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'

Sample Details

Sr. No.	Location	Code No.
01	Ground Water - Cuddegal (Within Plant Site)	GW-1
02	Ground Water - Santona Village (Ambeudok)	GW-2
03	Ground Water - Kalay Village (Devnamol)	GW-3

For Shreeji Aqua Treatment Pvt. Ltd.



Athavale
(Microbiology Department)
Authorized Signatory

-----End of Test Report-----

The results relate to sample tested.

Page 4 of 4

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodra: Plot No.1, Shah Ind. Park-1, Vadodra-Savli, Lamdapura. 391 775 Dist. Vadodra

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TC-13877

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.

ULR No.: TC138772500014241F

TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AV		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Ground Water		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)
Sampling Procedure	IS 3025 (Part 1)		
Limits	As Per IS 10500:2012 Standards		

Chemical Testing

Sr.No	Parameters	Results			Limits	Unit	Method
		GW-4	GW-5	GW-6			
1	pH Value	6.91	6.89	6.98	6.5-8.5	-----	IS 3025 (Part 11):2022
2	Turbidity	<1.0	<1.0	<1.0	1.0 Max	NTU	IS 3025 (Part 10) :1984 R 2023
3	Total Dissolved Solids	38.0	54.0	40.0	500.0 Max	mg/L	IS 3025 (Part 16): 2023
4	Sulphate as SO ₄	0.73	2.18	1.13	200.0 Max	mg/L	IS 3025: (Part 24/Sec 1) :R2022
5	Total alkalinity as CaCO ₃	15.0	25.0	20.0	200.0 Max	mg/L	IS 3025 (Part 23): 2023
6	Total Hardness as CaCO ₃	14.0	26.0	16.0	200.0 Max	mg/L	IS 3025 (Part 21): 2009 R 2019
7	Calcium as Ca	3.21	5.91	4.01	75.0 Max	mg/L	IS 3025 (Part 40): 1991 R 2019
8	Magnesium as Mg	1.46	2.92	1.46	30.0 Max	mg/L	IS 3025 (Part 46) R 2023
9	Chloride as Cl	7.01	15.03	11.02	250.0 Max	mg/L	IS 3025 (Part 32): 1988 R 2019
10	Nitrate as NO ₃	0.12	0.21	0.21	45.0 Max	mg/L	IS 3025 (Part 34):1988 R 2019
11	Lead as Pb	<0.01	<0.01	<0.01	0.01 Max	mg/L	IS 3025 (Part 2): 2004 R2019
12	Iron as Fe	<0.1	<0.1	<0.1	1.0 Max	mg/L	APHA, 24 th Edition : 3500Fe (Part B)2023
13	Free residual chlorine	<0.2	<0.2	<0.2	0.2 Min	mg/L	APHA 24th Edition (4500-Cl--B)2023
14	Boron as B	<0.01	<0.01	<0.01	0.5 Max	mg/L	IS 3025 (Part 2): 2004 R2019
15	Zinc as Zn	<0.01	0.028	0.013	5.0 Max	mg/L	IS 3025 (Part 2): 2004 R2019

Note: NA-Not Applicable. NTU: Nephelometric Turbidity unit

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: *Information supplied by customers represented in italic font*

For Shreeji Aqua Treatment Pvt. Ltd.

Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 4

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodra: Plot No.1, Shah Ind. Park-1, Vadodra-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreejiacqua.com Web: www.shreejiacqua.com

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TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AV		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Ground Water		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)
Sampling Procedure	IS 3025 (Part 1)		
Limits	As Per IS 10500:2012 Standards		

Chemical Testing

Sr.No	Parameters	Results			Limits	Unit	Method
		GW-4	GW-5	GW-6			
16	Cadmium as Cd	<0.003	<0.003	<0.003	0.003 Max	mg/L	IS 3025 (Part 2): 2004 R2019
17	Cyanide as CN	<0.05	<0.05	<0.05	0.05 Max	mg/L	APHA 24 th Edition:2023:4500CN (Part E)
18	Nickel as Ni	<0.01	<0.01	<0.01	0.02 Max	mg/L	IS 3025 (Part 2): 2004 R2019
19	Hexavalent Chromium	<0.01	<0.01	<0.01	NS	mg/L	APHA 24 th edition: 3500Cr- B:2023
20	Aluminium as Al	<0.01	<0.01	<0.01	0.03 Max	mg/L	IS 3025 (Part 2): 2004 R2019
21	Manganese as Mn	<0.01	<0.01	<0.01	0.1 Max	mg/L	IS 3025 (Part 2): 2004 R2019
22	Phenolic compound as C ₆ H ₅ OH	<0.001	<0.001	<0.001	0.001 Max	mg/L	IS 3025 (Part 43):1992 R 2022
23	Copper as Cu	<0.01	<0.01	<0.01	0.05 Max	mg/L	IS 3025 (Part 2): 2004 R2019
24	Sodium as Na	<0.1	0.24	0.20	NS	mg/L	APHA 24 th Edition:2023/3500-Na-B
25	Potassium as K	<0.1	0.15	0.10	NS	mg/L	APHA 24 th Edition:2023/3500-K-B
26	Conductivity	55.9	86.2	63.1	NS	µs/cm	APHA, 24 th Edition 2023/2510-B

Note: NA-Not Applicable. NS-Not Specified.

Remark: -The sample analyzed for above parameters is within the prescribed limits

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For Shreeji Aqua Treatment Pvt. Ltd.

Sumeet

Managing Director
Authorized Signatory

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Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodra: Plot No.1, Shah Ind. Park-1, Vadodra-Savli, Lamdapura. 391 775 Dist. Vadodra

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TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AV		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Ground Water		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)
Sampling Procedure	IS 3025 (Part 1)		
Limits	As Per IS 10500:2012 Standards		

Chemical Testing

Sr.No	Parameters	Results			Limits	Unit	Method
		GW-4	GW-5	GW-6			
27	Fluorides as F	<0.1	<0.1	<0.1	1.0 Max	mg/L	IS 3025 (Part 60) : 2008 R 2019
28	Mercury as Hg	<0.001	<0.001	<0.001	0.001 Max	mg/L	IS 3025: (Part 48):1994 R2020
29	Molybdenum as Mo	<0.01	<0.01	<0.01	0.07 Max	mg/L	IS 3025 (Part 2): 2004 R2019
30	Selenium as Se	<0.01	<0.01	<0.01	0.01 Max	mg/L	IS 3025 (Part 2): 2004 R2019
31	Silver as Ag	<0.01	<0.01	<0.01	0.1 Max	mg/L	IS 3025 (Part 2): 2004 R2019
32	Total arsenic as As	<0.01	<0.01	<0.01	0.01 Max	mg/L	IS 3025 (Part 37):1988 R2019
33	Barium as Ba	<0.01	<0.01	<0.01	0.7 Max	mg/L	IS 3025 (Part 2): 2004 R2019
34	Colour	<1.0	<1.0	<1.0	5.0 Max	Hazen	IS 3025 (Part 4) :1983 R 2021
35	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-----	IS 3025(Part 5):1983 R 2018
36	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-----	IS 3025(Part 7):1984 R 2017
37	Mineral Oil	<0.01	<0.01	<0.01	0.5 Max	mg/L	IS 3025(Part 39)R2021
38	Sulphide as H ₂ S	<0.05	<0.05	<0.05	0.05 Max	mg/L	IS 3025: (Part 29) : 1986 R2022
39	Chloramines as Cl ₂	<1.0	<1.0	<1.0	4.0 Max	mg/L	APHA 24 th edition 4500-Cl-F/2023
40	Anionic detergents (as MBAS)	<0.1	<0.1	<0.1	0.2 Max	mg/L	IS 3025 (Part 68): 2019
41	Ammonia (as total ammonia-N)	<0.07	<0.07	<0.07	0.5 Max	mg/L	IS 3025 (Part 34):1988 R 2019
42	Temperature	25.5	25.5	25.5	NS	°C	APHA, 24 th Edition 2023/2550-B

Note: NA-Not Applicable. NS-Not Specified

Remark: -The sample analyzed for above parameters is within the prescribed limits

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For Shreeji Aqua Treatment Pvt. Ltd.

Managing Director
Authorized Signatory

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Page 3 of 4



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TEST REPORT

16/03/2026

16/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AV		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Ground Water		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Sterile Plastic Bottle	Sample Quantity	250 mL(Each)
Sampling Procedure	IS (1622):1981R2019		
Limits	NA		

Biological Testing

Sr.No	Parameters	Results			Limits	Unit	Method
		GW-4	GW-5	GW-6			
1	Total coliform bacteria	<2.0	<2.0	<2.0	NA	MPN/100 ml	IS (1622):1981R2019
2	E. coli	<2.0	<2.0	<2.0	NA	MPN/100 ml	IS (1622):1981R2019

Note: NA-Not Applicable.

Remark: -The sample analyzed for above parameters is within the prescribed limits

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Sample Details

Sr. No.	Location	Code No.
01	Ground Water – Bandoli Village (Savargal)	GW-4
02	Ground Water – Muguli Village	GW-5
03	Ground Water – Tatodi Village	GW-6



For Shreeji Aqua Treatment Pvt. Ltd.

Atul Kalge
(Microbiology Department)
Authorized Signatory

-----End of Test Report-----

The results relate to sample tested.

Page 4 of 4

Pune: Plot No. 8-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

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ULR No.: TC138772500014242F

TEST REPORT

16/03/2026

16/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AW		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Ground Water		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)
Sampling Procedure	IS 3025 (Part 1)		
Limits	As Per IS 10500:2012 Standards		

Chemical Testing

Sr.No	Parameters	Results			Limits	Unit	Method
		GW-7	GW-8	GW-9			
1	pH Value	6.88	6.79	6.73	6.5-8.5	-----	IS 3025 (Part 11):2022
2	Turbidity	<1.0	<1.0	<1.0	1.0 Max	NTU	IS 3025 (Part 10):1984 R 2023
3	Total Dissolved Solids	50.0	52.0	54.0	500.0 Max	mg/L	IS 3025 (Part 16): 2023
4	Sulphate as SO ₄	1.29	2.18	2.42	200.0 Max	mg/L	IS 3025: (Part 24/Sec 1) :R2022
5	Total alkalinity as CaCO ₃	25.0	20.0	23.0	200.0 Max	mg/L	IS 3025 (Part 23): 2023
6	Total Hardness as CaCO ₃	22.0	24.0	26.0	200.0 Max	mg/L	IS 3025 (Part 21): 2009 R 2019
7	Calcium as Ca	5.61	4.81	4.81	75.0 Max	mg/L	IS 3025 (Part 40): 1991 R 2019
8	Magnesium as Mg	1.94	2.92	3.40	30.0 Max	mg/L	IS 3025 (Part 46) R 2023
9	Chloride as Cl	12.02	13.02	14.02	250.0 Max	mg/L	IS 3025 (Part 32): 1988 R 2019
10	Nitrate as NO ₃	0.21	0.20	0.23	45.0 Max	mg/L	IS 3025 (Part 34):1988 R 2019
11	Lead as Pb	<0.01	<0.01	<0.01	0.01 Max	mg/L	IS 3025 (Part 2): 2004 R2019
12	Iron as Fe	<0.1	<0.1	<0.1	1.0 Max	mg/L	APHA, 24 th Edition : 3500Fe (Part B)2023
13	Free residual chlorine	<0.2	<0.2	<0.2	0.2 Min	mg/L	APHA 24 th Edition (4500-Cl--B)2023
14	Boron as B	<0.01	<0.01	<0.01	0.5 Max	mg/L	IS 3025 (Part 2): 2004 R2019
15	Zinc as Zn	0.018	0.031	0.033	5.0 Max	mg/L	IS 3025 (Part 2): 2004 R2019

Note: NA-Not Applicable. NTU: Nephelometric Turbidity unit**Remark:** -The sample analyzed for above parameters is within the prescribed limits**Disclaimer:** 'Information supplied by customers represented in italic font'

For Shreeji Aqua Treatment Pvt. Ltd.

Sumeet K.
Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 4

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodra: Plot No.1, Shah Ind. Park-1, Vadodra-Savli, Lamdapura, 391 775 Dist. Vadodra

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TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AW						
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.						
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.						
Order / Reference	As Per TRF dated 10/03/2026						
Sample declaration as provided by customer :							
Nature of Sample	Ground Water						
Batch No.	NA						
Sample Drawn by	SATPL on 10/03/2026				Sample Received On	11/03/2026	
Start of Analysis	11/03/2026				End of Analysis	16/03/2026	
Sample Container	Plastic can				Sample Quantity	05 Lit (Each)	
Sampling Procedure	IS 3025 (Part 1)						
Limits	As Per IS 10500:2012 Standards						
Chemical Testing							
Sr.No	Parameters	Results			Limits	Unit	Method
		GW-7	GW-8	GW-9			
16	Cadmium as Cd	<0.003	<0.003	<0.003	0.003 Max	mg/L	IS 3025 (Part 2): 2004 R2019
17	Cyanide as CN	<0.05	<0.05	<0.05	0.05 Max	mg/L	APHA 24 th Edition:2023:4500CN (Part E)
18	Nickel as Ni	<0.01	<0.01	<0.01	0.02 Max	mg/L	IS 3025 (Part 2): 2004 R2019
19	Hexavalent Chromium	<0.01	<0.01	<0.01	NS	mg/L	APHA 24 th edition: 3500Cr- B:2023
20	Aluminium as Al	<0.01	<0.01	<0.01	0.03 Max	mg/L	IS 3025 (Part 2): 2004 R2019
21	Manganese as Mn	<0.01	<0.01	<0.01	0.1 Max	mg/L	IS 3025 (Part 2): 2004 R2019
22	Phenolic compound as C ₆ H ₅ OH	<0.001	<0.001	<0.001	0.001 Max	mg/L	IS 3025 (Part 43):1992 R 2022
23	Copper as Cu	<0.01	<0.01	<0.01	0.05 Max	mg/L	IS 3025 (Part 2): 2004 R2019
24	Sodium as Na	0.23	0.22	0.25	NS	mg/L	APHA 24 th Edition:2023/3500-Na-B
25	Potassium as K	0.14	0.15	0.17	NS	mg/L	APHA 24 th Edition:2023/3500-K-B
26	Conductivity	78.7	82.9	85.7	NS	us/cm	APHA, 24 th Edition 2023/2510-B

Note: NA-Not Applicable, NS-Not Specified.

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'



For Shreeji Aqua Treatment Pvt. Ltd.

S. Jonekar

Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 2 of 4

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

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TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AW		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Ground Water		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Plastic can	Sample Quantity	05 Lit (Each)
Sampling Procedure	IS 3025 (Part 1)		
Limits	As Per IS 10500:2012 Standards		

Chemical Testing

Sr.No	Parameters	Results			Limits	Unit	Method
		GW-7	GW-8	GW-9			
27	Fluorides as F	<0.1	<0.1	<0.1	1.0 Max	mg/L	IS 3025 (Part 60): 2008 R 2019
28	Mercury as Hg	<0.001	<0.001	<0.001	0.001 Max	mg/L	IS 3025: (Part 48):1994 R2020
29	Molybdenum as Mo	<0.01	<0.01	<0.01	0.07 Max	mg/L	IS 3025 (Part 2): 2004 R2019
30	Selenium as Se	<0.01	<0.01	<0.01	0.01 Max	mg/L	IS 3025 (Part 2): 2004 R2019
31	Silver as Ag	<0.01	<0.01	<0.01	0.1 Max	mg/L	IS 3025 (Part 2): 2004 R2019
32	Total arsenic as As	<0.01	<0.01	<0.01	0.01 Max	mg/L	IS 3025 (Part 37):1988 R2019
33	Barium as Ba	<0.01	<0.01	<0.01	0.7 Max	mg/L	IS 3025 (Part 2): 2004 R2019
34	Colour	<1.0	<1.0	<1.0	5.0 Max	Hazen	IS 3025 (Part 4): 1983 R 2021
35	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-----	IS 3025(Part 5):1983 R 2018
36	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-----	IS 3025(Part 7):1984 R 2017
37	Mineral Oil	<0.01	<0.01	<0.01	0.5 Max	mg/L	IS 3025(Part 39)R2021
38	Sulphide as H ₂ S	<0.05	<0.05	<0.05	0.05 Max	mg/L	IS 3025: (Part 29) : 1986 R2022
39	Chloramines as Cl ₂	<1.0	<1.0	<1.0	4.0 Max	mg/L	APHA 24 th edition 4500-Cl-F/2023
40	Anionic detergents (as MBAS)	<0.1	<0.1	<0.1	0.2 Max	mg/L	IS 3025 (Part 68): 2019
41	Ammonia (as total ammonia-N)	<0.07	<0.07	<0.07	0.5 Max	mg/L	IS 3025 (Part 34):1988 R 2019
42	Temperature	25.5	25.5	25.5	NS	°C	APHA, 24 th Edition 2023/2550-B

Note: NA-Not Applicable; NS-Not Specified

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'

For Shreeji Aqua Treatment Pvt. Ltd.



S. J. Mehta

Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 3 of 4



|| Shreeji ||

SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

Accredited by NABL as per ISO/IEC 17025:2017

Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt. of India, New Delhi

• ENVIRONMENT • FOOD • ANIMAL FOOD & FEED • MICROBIOLOGY

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.

TEST REPORT

16/03/2026

10/03/2026

Sample / Report No.	SATPL/25-26/03/MGW/22AW		
Name of Customer	M/s. GREATER FERROMET IRON ORE WET BENEFICATION PLANT.		
Address of Customer	SANTONA VILLAGE, SANGUEM TALUKA, SOUTH GOA DISTRICT, GOA.		
Order / Reference	As Per TRF dated 10/03/2026		
Sample declaration as provided by customer :			
Nature of Sample	Ground Water		
Batch No.	NA		
Sample Drawn by	SATPL on 10/03/2026	Sample Received On	11/03/2026
Start of Analysis	11/03/2026	End of Analysis	16/03/2026
Sample Container	Sterile Plastic Bottle	Sample Quantity	250 mL(Each)
Sampling Procedure	IS (1622):1981R2019		
Limits	NA		

Biological Testing

Sr.No	Parameters	Results			Limits	Unit	Method
		GW-7	GW-8	GW-9			
1	Total coliform bacteria	<2.0	<2.0	<2.0	NA	MPN/100 ml	IS (1622):1981R2019
2	E. coli	<2.0	<2.0	<2.0	NA	MPN/100 ml	IS (1622):1981R2019

Note: NA-Not Applicable.

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'

Sample Details

Sr. No.	Location	Code No.
01	Ground Water - Dargini Village	GW-7
02	Ground Water - Dabal Village	GW-8
03	Ground Water - Panchwadi Village	GW-9

For Shreeji Aqua Treatment Pvt. Ltd.



Atul Gore
(Microbiology Department)
Authorized Signatory

-----End of Test Report-----

The results relate to sample tested.

Page 4 of 4

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra-411018.

Lab: 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodra: Plot No.1, Shah Ind. Park-1, Vadodra-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreejaqua.com Web: www.shreejaqua.com

Shreeji Aqua is always subject to improvement for better customer satisfaction, we welcome your feedback on pune_lab@shreejaqua.com



|| Shreeji ||

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TC-13877

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.

ULR: TC138772500014236F

TEST REPORT

Lab Inward No. : SATPL/25-26/03/MANM/22AP	Date of Sampling : 10-11/03/2026
Client Name : M/s. GREATER FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD.)	Start of analysis : 10/03/2026
IRON ORE WET BENEFICIATION PLANT	End of Analysis : 11/03/2026
VILLAGE SANTONA, TALUKA - SANGUEM, SOUTH GOA DISTRICT, GOA	Report Date : 14/03/2026
	Sample Drawn By : SATPL Representative on 10-11/03/2026

Order / Reference: As per TRF dated 10/03/2026

AMBIENT NOISE LEVEL MONITORING

Sr. No.	LOCATIONS	NOISE LEVEL READING IN dB (A) Leq	
		DAY TIME	NIGHT TIME
1	Near Office (Core Zone)	55.2	37.6
2	Bandoli Village (Buffer Zone)	49.5	33.8
3	Carmonem Village (Buffer Zone)	52.1	36.0
4	Devnamol Village (Buffer Zone)	47.6	32.0

Remark : Reference to above mentioned monitoring report all the parameters are within the limits.

Disclaimer- 'information supplied by customers represented in italic font'

Noise Limits as per Schedule III of "The Environment (Protection) Rules, 1986" are as follows:

Area Code	Category of Area	Limits in dB(A) Leq	
		Day Time	Night Time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
Q629682	Sound Level Meter with data logger-1	SATPL/AR/SLM DL-03 /101	ATCL/250318/027	17.03.2025	16.03.2026

For Shreeji Aqua Treatment Pvt. Ltd.



S. S. S. S.
Managing Director
Authorized Signatory

-----End of Test Report-----

This report cannot be reproduced in parts. The results relate to sample tested.

Page 1 of 1

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune-411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreeji aqua.com Web: www.shreeji aqua.com

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|| Shreeji ||

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Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.

TEST REPORT

Lab Inward No. : SATPL/25-26/03/MWN/22AQ	Date of Sampling : 10/03/2026
Client Name : M/s. GREATER FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD.)	Start of Analysis : 10/03/2026
IRON ORE WET BENEFICIATION PLANT	End of Analysis : 10/03/2026
VILLAGE SANTONA, TALUKA - SANGUEM, SOUTH GOA DISTRICT, GOA	Report Date : 13/03/2026
Order / Reference: As per TRF dated 10/03/2026	Sample Drawn By : SATPL Representative on 10/03/2026

WORKPLACE NOISE LEVEL MONITORING

Sr. No.	LOCATIONS	NOISE LEVEL READING IN dB (A) Leq
		DAY TIME
1	At Plant (HEMM)	82.7
2	Near Excavator (HEMM)	80.2
3	Near Wheel loader (HEMM)	76.9
4	Tipplers (HEMM)	83.3

Remark : As per above mentioned report, all locations meets with the limit of noise standards. Permissible exposure limits as per DGMS Technical Circular 18 of 1975 and THE GOA Factories Rules, 1985 is 85 dB (A) for TWA (8 hrly).

Limit : Permissible exposure limits as per DGMS Technical Circular 18 of 1975 and The Goa Factories Rules, 1985 is 85 dB (A) for TWA (8 hrly).

Disclaimer- *Information supplied by customers represented in italic font'*

EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
Q629682	Sound Level Meter with data logger-1	SATPL-2AR/SLM DL-03 /101	ATCL/250318/027	17.03.2025	16.03.2026

For Shreeji Aqua Treatment Pvt. Ltd.



S. J. M. K.
Managing Director
Authorized Signatory

-----End of Test Report-----

This report cannot be reproduced in parts. The results relate to sample tested.

Page 1 of 1

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune-411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

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**GOVERNMENT OF GOA
OFFICE OF THE EXECUTIVE ENGINEER,
WORKS DIVISION XII,
WATER RESOURCES DEPARTMENT,
GOGOL – MARGAO - GOA.**

No. WRD/WDXII/TECH/F.60/437/2024-25

Date: 19 / 07 /2024.

To,

Mr. Sandeep Morajkar

(Authorised Representative)

Greater Ferromet, Division of

Sociedade De Fomento Industrial Pvt . Ltd.,

Vila Flores da Silva, Erasmo Carvalho Street,

Post Box 31, Margao -Goa 403601.

Subject: NOC for expansion and modernization of Iron ore Beneficiation Plant of “Greater Ferromet, Division of Sociedade De Fomento Industrial Private Limited” located at Survey No 9/1 (part) and 10/1(part) of Santana Village of Sanguem Taluka

Ref.: Your application dated 09/01/2024.

Sir,

With reference to above, the request to issue NOC for expansion and modernization of Iron ore Beneficiation Plant of “Greater Ferromet, Division of Sociedade De Fomento Industrial Private Limited” located at Survey No 9/1 (part) and 10/1(part) of Santana Village of Sanguem Taluka, is considered and approved by the Government with the following conditions:

- 1) No Processed water from the Plant shall be released directly into the Kalay River .
- 2) The rain and storm water shall be channelized through series of drains/trenches into the settling ponds having holding capacity of 22600 m³.
- 3) Mandatory annual cleaning of drains/ trenches shall be done commencing before the monsoons and no later than the end of month of May each year.

- 4) Routine maintenance shall include the periodic creation of bunds to optimize the proper controlled flow of rain and storm water into drains/ trenches
- 5) During monsoon only clear water shall be released from the settling pond.
- 6) Water from Kalay river shall not be drawn for use of the Plant.
- 7) During monsoon flow of water and its quality shall be monitored and records maintained.

This NOC is issued with the approval of the Government in file bearing round seal number 273/2024/CE-WRD .

Yours faithfully,



(M. B. Raikar)
Executive Engineer

Copy submitted to:

- 1) The Chief Engineer, WRD, Sinchai Bhawan, Near Police Station, Alto-Porvorim, Bardez - Goa.
- 2) The Superintending Engineer, Circle I, Water Resources Department, Sinchai Bhawan, Alto- Porvorim, Bardez-Goa.
- 3) The Sr. Hydrogeologist & Member Secretary, Ground Water Cell, Porvorim, Bardez -Goa.

Copy to:-

1. The Assistant Engineer, Sub- Division I, Works Division XII, WRD, Pajimol – Goa.

List of plant species planted

Sr. No.	Plant Name	Quantity
1	Marat	300
2	Tamon	200
3	Apto	200
4	Rito	300
5	Amla	200
6	Ghoting	300
7	Saton	300
8	Shisham	300
9	Chinch	200
10	Bhedus	400
11	Ramphal	50
12	Sitaphal	50
13	Dhup	100
14	Bamboo	200
15	Otam	50
16	Bel	50
17	Phalas	200
18	Peru	100
19	Jamun	400
20	Mohagani	300
21	Kokum	300
Total		4500

GOVERNMENT OF GOA
Office of the Principal Chief Conservator of Forests
Goa Van Bhawan, Forest Department
Altinho, Panaji-Goa, 403001

No.CWLW-81-MiningOper-FD-2023-24/ 3208

Dated: 30/10/2024.

To
Brijesh Dessai,
Sociedade de Fomento Industrial Private Limited,
Vila Flores da Silva,
Erasmu Carvalho Street,
Post Box31, Margao Goa-403 601.

Sub: Pointwise compliance to your Office Order vide letter dated 07/10/2024, with respect to Wildlife Conservation Plan for the Iron Ore Wet Beneficiation Plant " Greater Ferromet, Division of Sociedade de Fomento Industrial Privated Limited' located at Santona Village, Sanguem Taluka, South Goa.

Ref: No. Your office letter dated 18.10.2024.

Sir,

With reference to your letter dated 18.10.2024 above, find enclosed herewith approved and certified Wildlife Conservation Plan for the Iron Ore Wet Beneficiation Plant " Greater Ferromet, Division of Sociedade de Fomento Industrial Privated Limited' located at Santona Village, Sanguem Taluka, South Goa.

Further, as per the undertaking submitted by you, necessary compliance shall be ensured as per the approved items of works in Wildlife Conservation Plan.

Yours Sincerely



Asstt. Conservator of Forests
LC & CWLW

Encl: As above

"Swachh Bharat, Swachh Goa"



**GOVERNMENT OF GOA
OFFICE OF THE EXECUTIVE ENGINEER,
WORKS DIVISION XII,
WATER RESOURCES DEPARTMENT,
GOGOL – MARGAO - GOA.**

No. WRD/WDXII/TECH/F.60/ 226/2024-25

Date: 10/06/2024.

✓ To,
Sandeep Morajkar
(Authorised Representative)
Greater Ferromet, Division of
Sociedade De Fomento Industrial Pvt Ltd.,
Vila Flores da Silva, Erasmo Carvalho Street,
Post Box 31, Margao -Goa 403601.

Subject: Permission to use water from Block IV Kalay Mineral Block for operation of Iron Ore Wet Beneficiation Plant “Greater Ferromet, Division of Sociedade De Fomento Industrial Private Limited” Santona Village of Sanguem Taluka South –Goa.

Ref.: Your request application Dated 05/04/2024.

Sir,

With reference to above, the request to issue Permission to use water from Block IV Kalay Mineral Block for operation of Iron Ore Wet Beneficiation Plant “Greater Ferromet, Division of Sociedade De Fomento Industrial Private Limited” Santona Village of Sanguem Taluka South –Goa is granted with the approval of CE (WR) subject to the following conditions:

1. The water drawn from the Mining pit has to be quantified by fixing the proper metering device and the installation certificate along with the photos of the water meter installed has to be submitted before commencement of drawal of water.
2. The payment of ground water charges shall be done as per the Notification in force.
3. No polluted water shall be discharged into the river/nallah etc from the beneficiation plant.

Yours faithfully,

Executive Engineer
& Ground Water Officer

Copy submitted to:

- 1) The Chief Engineer, WRD, Sinchai Bhawan, Near Police Station, Alto-Porvorim, Bardez - Goa.
- 2) The Superintending Engineer, Circle I, Water Resources Department, Sinchai Bhawan, Alto- Porvorim, Bardez-Goa.
- 3) The Sr. Hydrogeologist & Member Secretary, Ground Water Cell, Porvorim, Bardez -Goa.

Copy to:-

1. The Assistant Engineer, Sub- Division I, Works Division XII, WRD, Pajimol - Goa.

Plantation under “Ek Ped Maa Ke Naam” Campaign



Date: 20/05/2026

To,
The Hon'ble Speaker & Member of Legislative Assembly
Sanvordem Constituency,
Sanguem Taluka
South-Goa.
Goa.

Sub: Compliance to condition no. 1.11, as stipulated in the Environmental Clearance granted to M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited), located at Village Santona, Taluka Sanguem, District South, Goa.

Ref: Environmental Clearance bearing file no. IA-J-11011/434/2023-IA-II(IND-I) dated 01/03/2025.

Respected Sir,

We wish to bring to your notice that Environmental Clearance (EC) bearing file no. IA-J-11011/434/2023-IA-II(IND-I) dated 01/03/2025, has been granted for the 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) modernization of M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited), located at Village Santona, Taluka Sanguem, District South, Goa. The said Iron Ore Wet Beneficiation Plant falls under the jurisdiction of the Sanvordem Constituency of Sanguem Taluka.

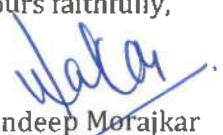
As per EC Condition No. 1.11, the Project Proponent is required to undertake a village adoption programme. The relevant extract of the condition is reproduced below for ready reference:

"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."

Accordingly, we propose to adopt Bandoli Village of Sanvordem Constituency under Sanguem Taluka for the village adoption programme and undertake developmental activities to transform the village into a model village

This is for your kind information and your valuable guidance in this matter.

Thanking You,
Yours faithfully,


Sandeep Morajkar
(Authorized Representative)



GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

Phone Nos : 0832- 2407700,
2407701, 2407702
2407703



Email Ids:
Chairman, GSPCB: chairman-gspcb.goa@nic.in
Member Secretary, GSPCB: ms-gspcb.goa@nic.in
Office, mail.gspcb@gov.in

No. 12/2025-PCB/2848771/R00019072

Date: 12/09/2025

Consent to Establish under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act,

[To be referred as Water Act, Air Act and HW (M & T) Rules respectively]

CONSENT TO ESTABLISH (EXPANSION) AND AUTHORIZATION is hereby granted to:

**M/S. GREATER FERROMET
(DIVISION OF SOCIADADE DE FOMENTO IND PVT LTD),
(Represented by: Mr. Partha S. Banerjee)
(Red Category)
(Expansion)**

**Survey nos. 9(P), 10(P).
Village Santona, Sanguem Goa.**

Located in the area declared under the provisions of the Water Act, Air Act, subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. This Consent to Establish (Expansion) is valid up to commissioning of the unit or 5 years whichever is earlier.
2. This Consent to Establish (Expansion) is valid for the activity of:

Sr. No	Description	Capacity
1.	Beneficiated Iron Ore	34004 Metric Tonnes/year (Total quantity expanded from 639996 Metric Tonnes/year to 674000 Metric Tonnes/year)

3. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:

- (i) The daily industrial water consumption of the unit shall not exceed **12139 KLD.**
- (ii) The daily industrial wastewater generation of the unit shall not exceed **10974 KLD.**
- (iii) The daily quantity of domestic water consumption from the unit shall not exceed **5 KLD.**

(iv) The daily quantity of domestic effluent from the unit shall not exceed **4 KLD.**

(v) **Industrial Effluent Treatment :**

The industrial effluent in the form of slurry will be treated with lime and flocculants in the thickener. The thickened underflow will be passed through a press filter and the tailing cake will be released into the tailing pond. The water recovered from thickener and press filter will be reused in beneficiation processed.

(vi) The tailing pond shall be so maintained that it will not overflow outside the premises and if the applicant proposed to change the location of the tailing pond the same shall be done after obtaining approval from the Board.

(vii) The water overflow from the tailing pond shall be at least once a month for the following parameters and results shall be submitted to the Board office regularly if the water is discharged outside the premises or not reused in the process.

pH	Between	5.5 & 9.0
Suspended Solids (non-rainy day)	Not to exceed	50 mg/l
Suspended Solids (rainy day)	Not to exceed	100 mg/l
Iron	Not to exceed	3 mg / l
Manganese	Not to exceed	2 mg / l
Oil & Grease	Not to exceed	10 mg/l

(viii) The unit shall at his own cost get the samples of water discharged from the BNF plant/stacking plot collected and analyse, every month the parameters indicated above from a laboratory recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and rules there under and results shall be submitted regularly to this Board by the 15th of the succeeding month.

(ix) A good house-keeping shall be maintained within the factory premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas.

(x) **Domestic Effluent treatment and Disposal:-**

The domestic wastewater shall be treated in a properly designed septic tank and discharged on land for percolation through soak pit of adequate size within the factory premises.

(ix) The unit should empty septic tank and soak pit periodically through night soil tankers for safe disposal and submit the copies of the receipts to the Board on regular basis.

(xi) Coursing of surface run off down the slope to the settling pond through the garland drains

(x) To prevent siltation of rivers/nallah/ fields catch drain, toe wall, filter bed, check dam, garland drains, arrest wall and siltation /settling ponds shall be maintained near the raw material and finished product storage area.

(xii) Cleanliness & neatness shall be maintained within the premises.

(xiii) **Non-Hazardous Solid Waste:**

All the Solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the board.

3. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:

- (i) The unit shall maintain and operate air pollution control system of adequate capacity for the following equipments

Sr. No	Name of Equipments/ Installation	No of installation	Capacity	SO ₂ Kg/Hr	Particulate Matter mg/Nm ³
1.	D.G. set	1	1010KVA	2.88	150

- (ii) The applicant shall observe the following standards for D. G. Sets ≥ 1000 KVA

Sr. No.	Parameters	Limits
1.	NO _x (as NO ₂)	1100 ppmv (as 15%O ₂)Dry basis in ppmv
2.	NMHC(as C)	150 mg/Nm ³ (at 15% O ₂)
3.	Particulate Matter	150 mg/Nm ³ (at 15 % O ₂)
4.	CO	150 mg/Nm ³ (at 15 % O ₂)
5.	Sulphur Content in Fuel	Less than 2%

- (iii) The unit shall erect the chimney(s) of the following specifications:

Sr. No	Chimney attached to	Height
1	D.G. Set (1010KVA)	11 mts

- (iv) The unit shall observe the following standards:-

Sr. No	Type of fuel	Quantity /hr
1	H.S.D. (for D.G. Set of 1010 KVA)	80 litres /hr

- (v) **The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method 1 Part 1 of Stack Monitoring – Material & methodology for isokinetic sampling.**

- (vi) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.

- (vi) The applicant shall provide wind breaking walls/barriers.

- (vii) The applicant shall provide dust containment cum suppression system.

- (viii) The applicant shall construct metalled road within the premises

- (ix) The applicant shall carry out regular cleaning and wetting of ground within the plot to suppress dust pollution.

- (xi) The applicant shall construct garland drains along the periphery of the unit to avoid siltation of dust into seasonal streams/ agricultural land, etc.

- (xii) The applicant shall plant fast growing trees along the periphery/ compound wall of the plot to arrest dust pollution.
- (xiv) The trucks/tippers engaged in transportation of ore shall have sufficient free board after filling the cargo box to avoid spillage.
- (xv) All trucks/ tippers engaged in the transportation of ore shall be covered with tarpaulin and the tarpaulin shall be properly fastened to the cargo box to ensure the ore does not get air borne or spill on the road.
- (xvi) In case of breakdown of loaded trucks / tippers unloading of ore at the road side is strictly prohibited.
- (xvii) The roads in Plot areas shall be sprinkled with water to suppress dust pollution.
- (xviii) Spillage of ore on the public roads shall be removed immediately on occurrence.
- (xix) The mining Company should make suitable arrangements for sweeping of roads affected due to transportation of iron ore.
- (xx) The maximum height of the stock piles should be restricted to 10 meters above general ground level.
- (xxi) The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows:

Category of Area/ Zone	Limits in dB (A) Leq	
	Day time	Night time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

- (xxii) Adequate mitigation measures shall be taken to control emission SO₂ , NO_x , PM₁₀, PM_{2.5}, RSPM Applicant shall achieve following Ambient Air Quality standards:

SO ₂	Not to Exceed (Annual Average)	50 µg/ m ³
	Not to Exceed (24 hours)	80 µg/ m ³
NO _x	Not to Exceed (Annual Average)	40 µg/ m ³
	Not to Exceed (24 hours)	80 µg/ m ³
PM ₁₀	Not to Exceed (Annual Average)	60 µg/ m ³
	Not to Exceed (24 hours)	100 µg/ m ³
PM _{2.5}	Not to Exceed (Annual Average)	40 µg/ m ³
	Not to Exceed (24 hours)	60 µg/ m ³

4. GENERAL CONDITIONS :-

- (i) The applicant shall not change or alter the quantity, the rates of discharge, temperature and the mode of disposal of the effluent without previous written permission of the Board.
- (ii) The applicant shall provide facilities for collection of the samples to the Board staff.
- (iii) Stack heights for a (Diesel generator set(s)) shall be as follows:
 - (a) Diesel Generator set(s): The minimum height of the stack to be provided with each generator shall be as per the formula $H = h + \sqrt[3]{KVA}$ where H = total height of the stack in meters, h = height of the building in meters where the generators is installed and KVA = total generator capacity of the set in KVA.
The generator shall be installed in a closed area with a silencer and suitable noise absorption systems so as to comply with the ambient noise level standards as mentioned below:
The ambient noise level shall not exceed 75 dB (A) at a distance of 5 meters from the source.
- (iv) The applicant shall provide ports in the chimney / stack and facilities such as ladder, platform etc. as per the directions of Pollution Control Board for monitoring the air emissions and the same shall be open for inspection and use the Board's staff. The chimney / stack attached to various sources of emissions shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- (v) The unit shall implement the following Rules and Regulations notified by the Ministry if Environment and Forests, Govt. of India.
 - a) Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 as amended thereafter;
 - b) Manufacture, storage and Import of Hazardous Chemicals Rules, 1989;
 - c) Rules for the Manufacture, Use, Import and Storage of Hazardous Micro – organism / - Genetically Engineered Organisms or Cell, 1989.
- (vi) There shall not be any perceptible odour outside the industrial premises.
- (vii) All the Rules and Regulations notified by the Ministry of Environment and Forests, Govt. of India in respect of noise pollution control measures shall be followed to avoid nuisance to public.
- (viii) Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves its right and powers under section 27(2) of the Water (Prevention and Control of Pollution) Act 1974 and under section 21(4) of the Air (Prevention and Control of Pollution) Act 1981 to review any or all the conditions imposed hereby.
- (ix) Any change in the details made after the submission of the application/ after obtaining the Consent to Establish shall be brought to the notice of the Board immediately.
- (x) This Consent to Establish is granted without any prejudice to any other permissions(s) required under any laws, bye – laws and regulations in force.

- (xi) The unit should obtain permission from the Forest Department/ Wild Life Board wherever applicable.
- (xii) The unit should implement rain water harvesting and ground water re-charge measures in consultation and approval of the Water Resource Department, Government of Goa and Directorate of Industries, Trade and Commerce, Government of Goa, before submitting an application for Consent to Operate.
- (xiii) The unit/ generator shall be responsible for safe and scientific collection, transportation, treatment and disposal of Bio-Medical Waste as per the provisions made under the Bio-Medical Waste Management Rules, 2016 as amended thereafter. Any activity as defined under BMW Rules has to obtain a separate Authorization from Goa State Pollution Control Board.
- (xiv) The unit should obtain all permissions / approvals as required under the prevalent Rules / Acts in force.
- (xv) The unit shall apply for Consents to Operate of the Board as required under section 25(1) (b & c) of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 in the prescribed application form, 45 days before commissioning of the plant
- (xvi) Reliable flow meter shall be installed to maintain record of water consumption / waste water consumption per day. This records so maintained shall be made available to the Board officials whenever required.
- (xvii) The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable.
- (xviii) The unit shall submit returns for disposal of batteries under the Batteries Management Rules 2022 as amended thereafter, if applicable.
- (xix) The unit shall submit returns for disposal of e-waste under the E- Waste Management Rules 2022, as amended thereafter, if applicable.
- (xx) The unit shall submit returns for disposal of plastic under the Plastic Waste Management Rules 2016, as amended thereafter, if applicable.
- (xxi) The applicant shall comply to the guidelines and DUST Mitigation measures in handling Construction material and C and D waste issued by Central Pollution Control Board and are placed on Board website goaspcb.gov.in.
- (xxii) The import, stocking, distribution, sale and use of use of plastic, including polystyrene and expanded polystyrene, commodities as per the Plastic Waste Management Rules 2016, as amended thereafter, shall be prohibited with effect from the 1st July, 2022.
- (xxiii) The unit has to obtain no objection certificate from the Central Ground water Authority, or the concerned State authority for any ground water abstraction, if applicable.

(xxiv) The unit shall comply with all the conditions stipulated in the Environmental Clearance.

To,
M/s. Greater Ferromet
(Division of Sociadade De Fomento Ind Pvt Ltd),
(Represented by: Mr. Partha S. Banerjee)
Survey nos. 9(P), 10(P).
Village Santana, Sanguem Goa.

Copy to:- 1 Accounts Section 2 Concerned File 3 Guard File

Received Consent fee of: The capital Investment of the unit is **Rs. 3,500 (In lakhs)**

Challan no.	Amount	Date
893	Rs. 90,720/-	18/07/2025

(Shri. Sanjeev Joglekar)
Member Secretary
Goa State Pollution Control Board

CUSTOMER FEEDBACK

Dear Citizen / Customer,

We appreciate you for sparing a few minutes for giving us your valuable feedback on our services

Name:.....Contact:.....

Address:.....

Email:.....Date.....

Name of the service availed:.....

Are you aware that service standards are included in the Citizen's Charter as available on Board's website
[:www.goaspcb.gov.in](http://www.goaspcb.gov.in)?

Yes ☐ No ☐

If yes, is the Citizen Charter simple and easy to understand?

Yes ☐ No ☐

Description of service delivery parameters (Consents/Authorization/RTI's/Complaints etc.)	Excellent	Good	Fair	Average	Poor	Reason for grading
Time taken to deliver service in comparison to service standards mentioned in Citizen's Charter						
Quality of service (accuracy, completeness)						
Knowledge of dealing hand / staff regarding services/schemes						
Courtesy of staff						
Board's response in view of your query/requirement is to your satisfaction						
Date of your visit to the office and your overall experience						

Suggestions for improvement, if any

.....

.....

.....

Signature & date

To,
The Member Secretary,
Goa State Pollution Control Board,
Near Pilerne Industrial Estate,
Opposite Saligao Seminary,
Saligao, Bardez, Goa. 403511

Please note that your feedback is considered essential for overall improvement and development of Board functions in service of environment.

Photograph of the installed Wheel washing system with tyre sprinkler:

A wheel washing system with tyre sprinkler has been established for the trucks carrying mineral, at a location just before the trucks enter the asphalted road. Photograph of wheel washing system is shown below.





SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

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TC-13877

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ULR No.: TC138772500011480F

TEST REPORT

05/11/2025

05/11/2025

Sample / Report No.	SATPL/25-26/11/MWW/03				
Name of Customer	M/s. GREAT FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD)				
Address of Customer	SURVEY No.9(P),10(P), VILLAGE SANTONA, SANGUEM-GOA.				
Order / Reference	As per TRF Dated 31/10/2025				
Sample declaration as provided by customer :					
Nature of Sample	Final Discharge Point Water Sample				
Batch No.	NA				
Sample Drawn by	SATPL Team on 31/10/2025	Sample Received On	01/11/2025		
Start of Analysis	01/11/2025	End of Analysis	05/11/2025		
Sample Container	Plastic Can	Sample Quantity	02 Lit.		
Sampling Procedure	APHA 1060 (Part B)				
Limits	GSPCB Consent No. 12/2022-PCB/1253953/R0009656				
Chemical Testing					
Sr. No	Parameters	Results	Limits	Unit	Method
1	pH	7.58	5.5 - 9.0	-----	APHA, 24 th Edition 2023/ 4500-H+B
2	Total Suspended Solids (TSS) (Rainy Day)	8.0	<100.0	mg/L	APHA, 24 th Edition 2023/ 2540-D
3	Oil & Grease	<2.0	<10.0	mg/L	IS 3025 (Part 39):2021
4	Iron	0.054	<3.00	mg/L	APHA, 24 th Edition 2023/3500-Fe-B
5	Manganese	<0.01	<2.00	mg/L	APHA, 24 th Edition 2023/3120-B

Note: NA: Not Applicable.

Remark: Reference to above testing parameters, given water sample is within the prescribed limit.

Disclaimer: 'Information is supplied by customers represented in italic font'

EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
-----	PH Meter	SATPL/WT/pHM/02	FSC/2503/1801/037	18-03-2025	17-03-2026
D307534576	Analytical Weighing Balance	SATPL/WT/WL/06	FSC/2503/1801/005	18-03-2025	17-03-2026
-----	Oven	SATPL/WT/HAO/04 / TCS	FSC/2503/1801/001	18-03-2025	17-03-2026
66050	Water Bath	SATPL/WT/WB/07 / TCS	FSC/2503/1801/006	18-03-2025	17-03-2026
2074	Inductive Coupled Plasma	SATPL/WT/ICP/29	-----	In house Calibration	



For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
Authorized Signatory

-----End of Test Report-----

The results relate to sample tested.

Page 1 of 1

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreejiaqua.com Web: www.shreejiaqua.com

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ULR No.: TC138772500011482F

TEST REPORT

05/11/2025

03/11/2025

Sample / Report No.	SATPL/25-26/11/MWW/05		
Name of Customer	M/s. GREAT FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD)		
Address of Customer	SURVEY No.9(P),10(P), VILLAGE SANTONA, SANGUEM-GOA.		
Order / Reference	As Per TRF dated 31/10/2025		
Sample declaration as provided by customer:			
Nature of Sample	Kalay River Upstream Water		
Batch No.	NA		
Sample Drawn by	SATPL on 31/10/2025	Sample Received On	01/11/2025
Start of Analysis	01/11/2025	End of Analysis	05/11/2025
Sample Container	Plastic can	Sample Quantity	02 Lit
Sampling Procedure	IS 3025 (Part 1)		
Limits	Surface Water Quality Standards Class –C (as per IS:2296)		

Chemical Testing

Sr. No	Parameters	Results	Limits	Unit	Method
1	Colour	<1.0	300.0 Max	Hazen	IS 3025 (Part 4) :1983 R 2021
2	pH Value	7.66	6.5-8.5	-----	IS 3025 (Part 11):2022
3	Total Dissolved Solids	32.0	1500.0 Max	mg/L	IS 3025 (Part 16): 2023
4	Sulphate as SO ₄	0.56	400.0 Max	mg/L	IS 3025: (Part 24/Sec 1): R2022
5	Chloride as Cl	6.81	600.0 Max	mg/L	IS 3025 (Part 32): 1988 R 2019
6	Iron as Fe	<0.1	50.0 Max	mg/L	APHA, 24 th Edition: 3500Fe (Part B) 2023
7	Cadmium as Cd	<0.003	0.05 Max	mg/L	IS 3025 (Part 2): 2004 R2019
8	Cyanide as CN	<0.05	0.05 Max	mg/L	APHA 24 th Edition: 2023:4500CN (Part E)
9	Lead as Pb	<0.01	0.01 Max	mg/L	IS 3025 (Part 2): 2004 R2019
10	Mercury as Hg	<0.001	0.1 Max	mg/L	IS 3025: (Part 48):1994 R2020
11	Total arsenic as As	<0.01	0.2 Max	mg/L	IS 3025 (Part 37):1988 R2019
12	Manganese as Mn	<0.01	15.0 Max	mg/L	IS 3025 (Part 2): 2004 R2019
13	Nitrate as NO ₃	<0.1	50.0 Max	mg/L	IS 3025 (Part 34):1988 R 2019
14	Phenolic compound as C ₆ H ₅ OH	<0.001	0.005 Max	mg/L	IS 3025 (Part 43):1992 R 2022

Note: NA-Not Applicable. NTU: Nephelometric Turbidity unit

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'



For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 3

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

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TEST REPORT						05/11/2025
Sample / Report No.		SATPL/25-26/11/MWW/05				
Name of Customer		M/s. GREAT FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD)				
Address of Customer		SURVEY No.9(P),10(P), VILLAGE SANTONA, SANGUEM-GOA.				
Order / Reference		As Per TRF dated 31/10/2025				
Sample declaration as provided by customer:						
Nature of Sample		Kalay River Upstream Water				
Batch No.		NA				
Sample Drawn by		SATPL on 31/10/2025	Sample Received On	01/11/2025		
Start of Analysis		01/11/2025	End of Analysis	05/11/2025		
Sample Container		Plastic can	Sample Quantity	02 Lit		
Sampling Procedure		IS 3025 (Part 1)				
Limits		Surface Water Quality Standards Class -C (as per IS:2296)				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
15	Selenium as Se	<0.01	0.05 Max	mg/L	IS 3025 (Part 2): 2004 R2019	
16	Copper as Cu	<0.01	1.5 Max	mg/L	IS 3025 (Part 2): 2004 R2019	
17	Anionic detergents (as MBAS)	<0.1	1.0 Max	mg/L	IS 3025 (Part 68): 2019	
18	Dissolved Oxygen	6.5	>4.0	mg/L	APHA, 24 th Edition 2023/ 4500-B&C	
19	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.4	<3.0	mg/L	IS 3025 (Part 44):2023	
20	Oil & Grease	<0.1	<0.1	mg/L	IS 3025 (Part 39):2021	
Note: NA-Not Applicable.						
Remark: -The sample analyzed for above parameters is within the prescribed limits						
Disclaimer: 'Information supplied by customers represented in italic font'						
		For Shreeji Aqua Treatment Pvt. Ltd.				
		SJM Managing Director Authorized Signatory				

A part of the report has been generated on the next page. The results relate to sample tested.

Page 2 of 3

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 **Email:** info@shreejiaqua.com **Web:** www.shreejiaqua.com

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|| Shreeji ||

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TEST REPORT						05/11/2025
Sample / Report No.		SATPL/25-26/11/MWW/05				
Name of Customer		M/s. GREAT FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD)				
Address of Customer		SURVEY No.9(P),10(P), VILLAGE SANTONA, SANGUEM-GOA.				
Order / Reference		As Per TRF dated 31/10/2025				
Sample declaration as provided by customer:						
Nature of Sample		Kalay River Upstream Water				
Batch No.		NA				
Sample Drawn by		SATPL on 31/10/2025	Sample Received On		01/11/2025	
Start of Analysis		01/11/2025	End of Analysis		05/11/2025	
Sample Container		Sterile Plastic Bottle	Sample Quantity		250 mL	
Sampling Procedure		IS (1622):1981R2019				
Limits		Surface Water Quality Standards Class -C (as per IS:2296)				
Biological Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	Total coliform bacteria	>1600.0	5000.0	MPN/100 mL	IS (1622):1981R2019	
Note: NA-Not Applicable.						
Remark: -The sample analyzed for above parameters is within the prescribed limits						
Disclaimer: 'Information supplied by customers represented in italic font'						
Review By				For Shreeji Aqua Treatment Pvt. Ltd.		
						
Microbiologist		Technical Manager (Microbiology Department)				

-----End of Test Report-----

The results relate to sample tested.

Page 3 of 3

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

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ULR No.: TC138772500011481F

TEST REPORT

05/11/2025

05/11/2025

Sample / Report No.	SATPL/25-26/11/MWW/04		
Name of Customer	M/s. GREAT FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD)		
Address of Customer	SURVEY No.9(P),10(P), VILLAGE SANTONA, SANGUEM-GOA.		
Order / Reference	As Per TRF dated 31/10/2025		
Sample declaration as provided by customer :			
Nature of Sample	Kalay River Downstream Water		
Batch No.	NA		
Sample Drawn by	SATPL on 31/10/2025	Sample Received On	01/11/2025
Start of Analysis	01/11/2025	End of Analysis	05/11/2025
Sample Container	Plastic can	Sample Quantity	02 Lit
Sampling Procedure	IS 3025 (Part 1)		
Limits	Surface Water Quality Standards Class -C (as per IS:2296)		

Chemical Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Colour	<1.0	300.0 Max	Hazen	IS 3025 (Part 4) :1983 R 2021
2	pH Value	7.70	6.5-8.5	-----	IS 3025 (Part 11):2022
3	Total Dissolved Solids	38.0	1500.0 Max	mg/L	IS 3025 (Part 16): 2023
4	Sulphate as SO ₄	<0.5	400.0 Max	mg/L	IS 3025: (Part 24/Sec 1): R2022
5	Chloride as Cl	6.21	600.0 Max	mg/L	IS 3025 (Part 32): 1988 R 2019
6	Iron as Fe	<0.1	50.0 Max	mg/L	APHA, 24 th Edition: 3500Fe (Part B)2023
7	Cadmium as Cd	<0.003	0.05 Max	mg/L	IS 3025 (Part 2): 2004 R2019
8	Cyanide as CN	<0.05	0.05 Max	mg/L	APHA 24 th Edition: 2023:4500CN (Part E)
9	Lead as Pb	<0.01	0.01 Max	mg/L	IS 3025 (Part 2): 2004 R2019
10	Mercury as Hg	<0.001	0.1 Max	mg/L	IS 3025: (Part 48):1994 R2020
11	Total arsenic as As	<0.01	0.2 Max	mg/L	IS 3025 (Part 37):1988 R2019
12	Manganese as Mn	<0.01	15.0 Max	mg/L	IS 3025 (Part 2): 2004 R2019
13	Nitrate as NO ₃	<0.1	50.0 Max	mg/L	IS 3025 (Part 34):1988 R 2019
14	Phenolic compound as C ₆ H ₅ OH	<0.001	0.005 Max	mg/L	IS 3025 (Part 43):1992 R 2022

Note: NA-Not Applicable. NTU: Nephelometric Turbidity unit

Remark: -The sample analyzed for above parameters is within the prescribed limits

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For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 3

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

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|| Shreeji ||

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TEST REPORT

05/11/2025

Sample / Report No.	SATPL/25-26/11/MWW/04		
Name of Customer	M/s. GREAT FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD)		
Address of Customer	SURVEY No.9(P),10(P), VILLAGE SANTONA, SANGUEM-GOA.		
Order / Reference	As Per TRF dated 31/10/2025		
Sample declaration as provided by customer:			
Nature of Sample	Kalay River Downstream Water		
Batch No.	NA		
Sample Drawn by	SATPL on 31/10/2025	Sample Received On	01/11/2025
Start of Analysis	01/11/2025	End of Analysis	05/11/2025
Sample Container	Plastic can	Sample Quantity	02 Lit
Sampling Procedure	IS 3025 (Part 1)		
Limits	Surface Water Quality Standards Class –C (as per IS:2296)		

Chemical Testing

Sr.No	Parameters	Results	Limits	Unit	Method
15	Selenium as Se	<0.01	0.05 Max	mg/L	IS 3025 (Part 2): 2004 R2019
16	Copper as Cu	<0.01	1.5 Max	mg/L	IS 3025 (Part 2): 2004 R2019
17	Anionic detergents (as MBAS)	<0.1	1.0 Max	mg/L	IS 3025 (Part 68): 2019
18	Dissolved Oxygen	6.8	>4.0	mg/L	APHA, 24 th Edition 2023/ 4500-B&C
19	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.6	<3.0	mg/L	IS 3025 (Part 44):2023
20	Oil & Grease	<0.1	<0.1	mg/L	IS 3025 (Part 39):2021

Note: NA-Not Applicable.

Remark: -The sample analyzed for above parameters is within the prescribed limits

Disclaimer: 'Information supplied by customers represented in italic font'



For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
Authorized Signatory

A part of the report has been generated on the next page. The results relate to sample tested.

Page 2 of 3

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra

Customer Care No.: +919225247365 Email: info@shreejiaqua.com Web: www.shreejiaqua.com

Shreeji Aqua is always subject to improvement for better customer satisfaction, we welcome your feedback on pune_lab@shreejiaqua.com



|| Shreeji ||

SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

Accredited by NABL as per ISO/IEC 17025:2017

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Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt. of India, New Delhi

● ENVIRONMENT ● FOOD ● ANIMAL FOOD & FEED ● MICROBIOLOGY

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 13/06/2026.

TEST REPORT						05/11/2025
Sample / Report No.	SATPL/25-26/11/MWW/04					
Name of Customer	M/s. GREAT FERROMET (DIVISION OF SOCIEDADE DE FOMENTO INDUSTRIAL PVT. LTD)					
Address of Customer	SURVEY No.9(P),10(P), VILLAGE SANTONA, SANGUEM-GOA.					
Order / Reference	As Per TRF dated 31/10/2025					
Sample declaration as provided by customer:						
Nature of Sample	Kalay River Downstream Water					
Batch No.	NA					
Sample Drawn by	SATPL on 31/10/2025	Sample Received On	01/11/2025			
Start of Analysis	01/11/2025	End of Analysis	05/11/2025			
Sample Container	Sterile Plastic Bottle	Sample Quantity	250 mL			
Sampling Procedure	IS (1622):1981R2019					
Limits	Surface Water Quality Standards Class -C (as per IS:2296)					
Biological Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	Total coliform bacteria	>1600.0	5000.0	MPN/100 mL	IS (1622):1981R2019	
Note: NA-Not Applicable.						
Remark: -The sample analyzed for above parameters is within the prescribed limits						
Disclaimer: 'Information supplied by customers represented in italic font'						
Review By		For Shreeji Aqua Treatment Pvt. Ltd.				
						
Microbiologist		Technical Manager (Microbiology Department)				

The results relate to sample tested.

-----End of Test Report-----

Page 3 of 3

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Morewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

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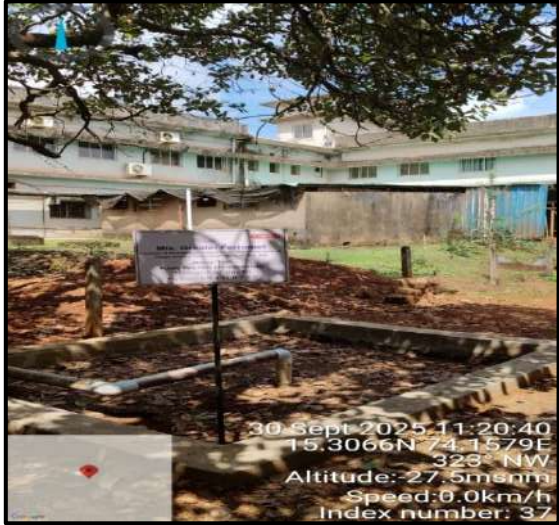
Customer Care No.: +919225247365 **Email:** info@shreejiaqua.com **Web:** www.shreejiaqua.com

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Photograph of the Water meter at the inlet point to the plant



Existing Settling ponds & Roof top rain water harvesting facility



Photographs showing compost pit



Status report on Implementation of Single Use Plastic (SUP) Ban and Awareness Activities by M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited)

Background

The Ministry of Environment, Forest and Climate Change (MoEFCC) through Notification dated 12th August 2021, has mandated the prohibition of identified Single Use Plastic (SUP) items with effect from 1st July 2022. The Central Pollution Control Board (CPCB) issued directions to all State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs) on 30th June 2022 for ensuring compliance with this mandate.

In accordance with the above, the project has adopted a proactive approach to eliminate the use of SUP within its premises and to create awareness among its employees, contractors, and the locals about the environmental impacts of plastic waste and the need for sustainable alternatives.

Objective

The main objective of this initiative is to ensure full compliance with the SUP ban within the project premises and to encourage the use of reusable and biodegradable alternatives among all stakeholders.

Environmental Significance

Single Use Plastic items such as plastic carry bags, straws, cutlery etc. pose a severe threat to terrestrial and marine ecosystems due to their non-biodegradable nature. Improper disposal of these items leads to clogging of drainage systems and micro plastic pollution in soil and water bodies. By banning SUP and promoting eco-friendly materials, the initiative supports national objectives under the Swachh Bharat Mission.

Status of measures undertaken to ban Single-Use Plastics

M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited) has taken steps to gradually reduce the use of plastic with the factory

premises. Some of the initiatives undertaken by the factory management includes:

1. Conducted awareness sessions for employees and contract workers on the ban of SUP items. Short talks were given to the employees stating the ill effects of single use plastic on human health and on the environment and the probable ecofriendly alternatives.
2. Awareness program was conducted at the Government Primary school, Morkarni Kirlapal. Students were made aware of the ill effects of SUP by with small talk and displaying banners showing ill effects of SUP. The substitute of SUP were also explained and were displayed on the banner.
3. As a part of implementation a small jute pouch were distributed to the students as a substitute to plastic pouch.

Some of the photographs of the awareness program carried out at Government primary school, Morkarni Kirlapal are shown below:







Factory management proposes following measures to minimize Single Use Plastic such as:

1. It is proposed to instruct all vendors and canteen operator to replace plastic cutlery and packaging with biodegradable or reusable alternatives like paper, steel, or cloth materials wherever feasible.
2. Regular inspections will be carried out by the Environment Department to ensure compliance with the SUP ban.

Conclusion

The project proponent is committed to comply with the MoEF&CC Notification dated 12th August 2021 on the ban of Single Use Plastic. Through continuous awareness and monitoring the project will contribute to environmental protection and sustainable management.

FORM-3

[See rules 4(5), 5(5), 8(6), 9(4), 10(8), 11(9), 13 (1) (xi), 13(2)(v), 13(3)(vii) and 13(4)(v)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted by producer or manufacturer or refurbisher or dismantler or recycler by 30th day of June following the financial year to which that return relates].

Quantity in Metric Tonnes (MT)

1.	Name and address of the producer or manufacturer or refurbisher or dismantler or recycler	:	Sociedade de Fomento Industrial Private Limited
2.	Name of the authorised person and complete address with telephone and fax numbers and e-mail address	:	Shafeeq Mitha Authorised Signatory Panaji 8308844156 - shafeeq@fomento.com
3.	Total quantity of e-waste collected or channelised to recyclers or dismantlers for processing during the year for each category of electrical and electronic equipment listed in the Schedule I by PRODUCERS		
Detail For		Type	Quantity
BULK CONSUMERS: Quantity of e-waste		Not Applicable	0
4. Name and full address of the destination with respect to 3(A)-3(D) above			
Detail For		Name	Address
BULK CONSUMERS: Quantity of e-waste		Not disposed hence not applicable	Not applicable
5.	Type and quantity of materials segregated or recovered from e-waste of different codes as applicable to 3(A)-3(D)		
Detail For		Type	Quantity
BULK CONSUMERS: Quantity of e-waste		Not Applicable	0

Place: _____

Date: _____

Signature of authorized person

CARBON MANAGEMENT PLAN

FOR

**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.**

FOMENTO

M/s. Greater Ferromet

(Division of Sociedade De Fomento Industrial Private Limited)

**Village Santona, Sanguem Taluka,
South Goa District, Goa.**



To mitigate the impact on global emissions, the industry is exploring innovative solutions like replacing fossil fuel-based gases with green hydrogen produced via renewable energy-powered electrolysis in the DRI process⁴. These efforts are crucial for meeting the long-term target of "Net Zero" emissions and aligning with the goals set forth by International climate summits such as the Glasgow COP 26.

The leading CO₂ emitters across the globe have been depicted below:

4.3 NEED OF ASSESSMENT OF CARBON EMISSION AND REDUCTION OPTIONS

Although there are no statutory obligations on companies to measure and report total air emissions in India, the preparation of air emissions inventories can be useful in internal company benchmarking, public reporting, product profiles, and emerging emissions trading. In the near future, it is also possible that voluntary actions to promote energy efficiency and GHG emissions mitigations, especially in large, organized industrial sectors like metallurgy will gain momentum. However, in order to bring the metallurgy sector in line with the Paris Agreement, its emissions need to fall by at least 16% by 2030.

Emissions from Steel Production

(tonnes of CO₂e per tonne of steel)

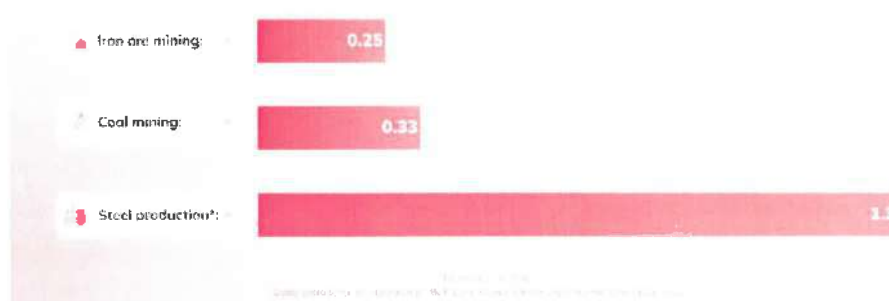


FIGURE 9 CO₂ EMISSION IN A STEEL PRODUCTION

4.4 METHODOLOGY

Greenhouse Gas Emission Inventorization study at an Iron Ore beneficiation facility / company involves the following procedure:

1. Identification of Emission sources
2. Classification of Emission sources as per Scope 1, 2 & 3
3. Identification & collection of various inputs / data(s) required for calculation of Emission sources
4. Calculate emission level using the above data

4.5 SOURCES OF CO₂ EMISSION FROM AN IRON ORE BENEFICATION PLANT

CO₂ emissions from a Iron Ore Beneficiation plant can be broadly classified into 3 categories:

- ✖ **Scope 1 Emissions:** Scope 1 emissions encompass direct greenhouse gas emissions that occur from sources. For an iron ore beneficiation plant, Scope 1 emissions includes:

- Emissions from combustion processes: This includes emissions from on-site combustion of fossil fuels for activities such as D.G. Sets and plant machineries.
 - Fugitive emissions: These emissions can arise from various sources such as plant process, storage of materials and Transport of Mineral.
- ✕ **Scope 2 Emissions:** Scope 2 emissions involve indirect greenhouse gas emissions associated with the generation of purchased energy. For an iron ore beneficiation plant, Scope 2 emissions may include:
- Electricity consumption: Energy used for powering equipment, lighting, and other operational needs, sourced from the grid or other energy providers.
- ✕ **Scope 3 Emissions:** Scope 3 emissions comprise all other indirect greenhouse gas emissions that occur as a result of the organization's activities, but from sources not owned or controlled by the organization. For an iron ore beneficiation plant, Scope 3 emissions may include:
- Upstream emissions: Emissions associated with activities upstream, such as extraction and transportation of raw materials like iron ore, or other inputs.
 - Downstream emissions: Emissions occurring downstream of the organization's operations, including transportation and distribution of finished products to customers, as well as the use and disposal of those products.
 - Indirect emissions from purchased goods and services: Emissions associated with the production of goods and services purchased by the organization, including equipment, chemicals, and other inputs used in the beneficiation process.
 - Business travel: Emissions resulting from employee travel for work-related purposes, including commuting, business trips, and transportation of goods

Various parameter considered in these scopes are tabulated below:

TABLE 6 CATEGORIZATION OF SCOPE 1, 2 & 3 GHG EMISSIONS FROM IRON ORE BENEFICIATION INDUSTRY

S. No.	Category	Boundary
1.	Scope 1	• Emissions due to Storage of Mineral • Fuel consumption in D.G Sets for operation of plant machineries • Emissions due to Raw Material Handling equipment
2.	Scope 2	• Emission due to purchased electricity
3.	Scope 3	• Transportation- Emission due to raw material transportation through roads and Finish Products to Jetty. • Leased Assets- Emission due to hired pool vehicles, Leased offices & Guesthouses • Business Travel



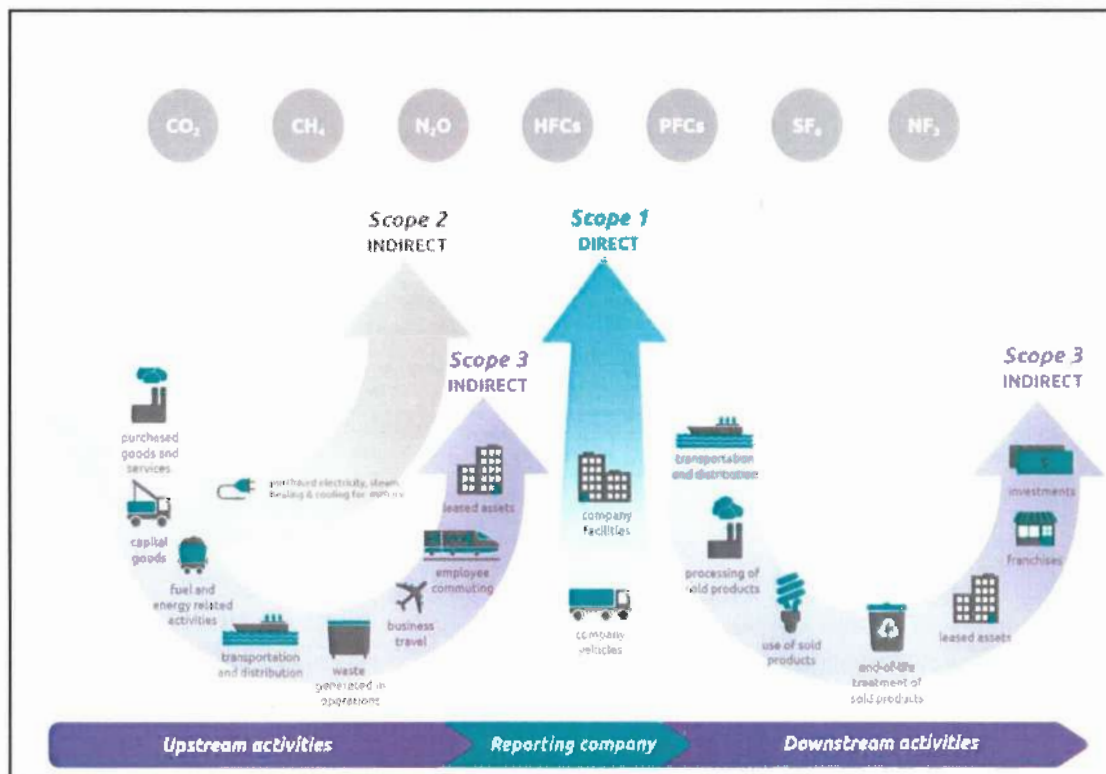


FIGURE 10 REPRESENTATION OF BOUNDARY OF SCOPE 1, 2 AND 3 EMISSIONS

Globally, the iron and steel production emits a combined 3.4 billion tonnes of carbon annually, which is equivalent to 7% of global emissions. This significant contribution to global emissions underscores the urgency for the steel industry to transition towards more sustainable practices, such as using higher-grade iron ore for steelmaking, which can reduce the carbon footprint.

4.6 DATA COLLECTED:

The data collected for the calculation has been tabulated below:

S. No.	Particular	Quantity
1.	Iron Ore required	1.0 MTPA
2.	Power required	8 MW
3.	Diesel required	493 TPA
4.	Calorific value	10875 Kcal/kg
5.	Emission factor for Diesel	2.69 Kg CO ₂ /litre

4.7 SOURCES OF CO₂ EMISSIONS

Through the plant operations it is observed that the sources of emissions can be categorized into four, which are as follows:



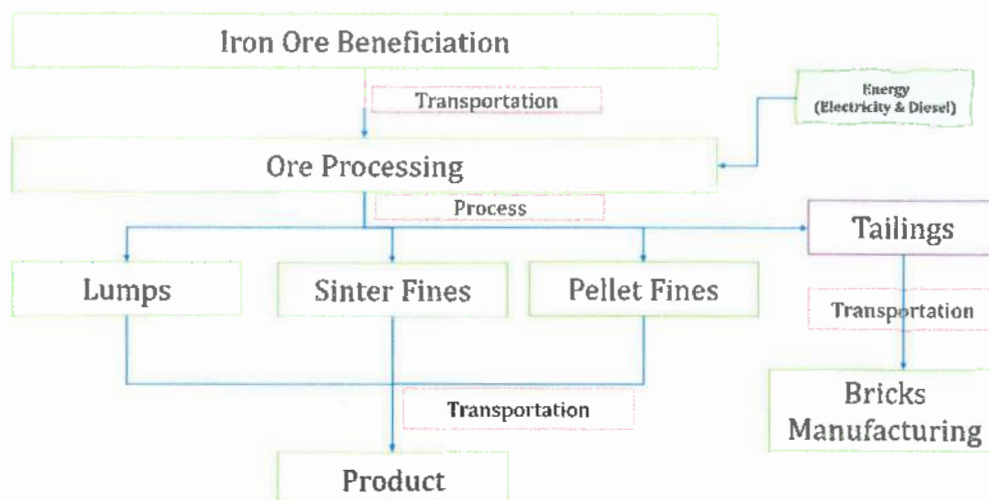


FIGURE 11 PROCESS FLOW OF IRON ORE BENEFICIATION PLANT

(i) **SCOPE-I EMISSION CALCULATION:**

A. EMISSIONS FROM PRODUCT AND RAW MATERIAL STACKING:

To calculate greenhouse gas (GHG) emissions associated with the storage of minerals, particularly in tailings or stockpiles, a methodology which involves estimating the amount of organic matter present and the rate of decomposition, as well as any fugitive emissions that may occur during storage activities. The approach which is used is emission factors based on empirical data or scientific studies.

Raw Material Stacking: The emission factor for Raw Material Stacking is generally around 0.005 tonnes of CO₂ per tonne of pellets fine processed.

Pellet Fines Processing: The emission factor for pellet production is generally around 0.03 tonnes of CO₂ per tonne of pellets Fines processed.

Sinter Fines Processing: Sinter Fine Production has a higher emission factor, typically ranging from 0.20 to 0.25 tonnes of CO₂ per tonne of sinter Fines processed

GHG Emissions = Volume of stored mineral × Emission factor

A. Emissions for Raw Material Stacking = $0.086 \times 10^6 \times 0.005 = 430$ tons CO₂e

B. Emissions for Sinter Fines Processing = $0.034 \times 10^6 \times 0.25 = 8500$ tons CO₂e

C. Emissions for Pellet Fines Processing = $0.034 \times 10^6 \times 0.03 = 1020$ tons CO₂e

B. EMISSIONS FROM D.G SETS:

In case of emergency or power backup company has two D.G. Sets of 200 KVA and 30 KVA which will be used.

Emission due to Deisel Generator = EF * DC

Where,

EF = 1.27 Kg CO₂/liter- Emission factor of diesel (Kg CO₂/liter)

DC= Total diesel consumption (litres/Ton Product)

For processing of 0.67 Million TPA Iron Ore. The generator would consume approximately 40 liter of diesel fuel per hour when operating at full load.



Therefore, for 80 liter of diesel is required per day for 2 hours. (Only in case of emergency)

Therefore,

CO₂ emission from diesel = Total diesel consumption (DC) * Emission factor of diesel (EF)

= 40 x 1.27 t CO₂/litre

= 50.8 Kg CO₂/ton of Processing of Iron Ores.

(II)

SCOPE-II EMISSION CALCULATION:

Emissions from electricity grid

Emissions due to use of electricity from grid is calculated by applying UNFCCC methodology "Tool to calculate project emissions from electricity consumption" is used to calculate emissions for electricity consumption from the grid. This tool provides procedures to estimate the project emissions associated with the consumption of electricity by the proposed project activity.

Project emissions from consumption of electricity from the grid are calculated based on the power consumed by the project activity and the emission factor of the grid, adjusted for transmission losses, using the following formula:

$$PE_{Grid} = EC * EF * (1 + TDL)$$

Where:

- PE_{Grid}** - Project emissions from electricity consumption by the project activity
- EC = 8 MWh** - Quantity of electricity consumed by the project activity during the year (MWh);
- EF = 0.82t CO₂/MWh** Emission factor for the grid (tCO₂/MWh) [Central Electricity Authority, India default value for India]
- TDL = 3 %** Average technical transmission and distribution losses in the grid in year for the voltage level at which electricity is obtained from the grid at the project site

Therefore,

$$PE_{Grid} = 8 * 0.82 * (1 + 3/100) = 6.7568$$

$$PE_{Grid} = 7.8 \text{ Kg/ton Products}$$

(iii)

SCOPE-III EMISSION CALCULATION:

Plant activities include using heavy machinery consuming large quantity of diesel as fuel. Therefore, emissions pertaining to mining activities are estimated by considering the combustion of diesel fuel by the heavy machinery. The CO₂ emissions are estimated as follows:

$$\text{Emission due to transportation} = EF * DC$$

Where,

EF = 2.69 Kg CO₂/liter - Emission factor of diesel (Kg CO₂/liter)

DC = Total diesel consumption (litres/Ton Product)

~0.5 L of diesel is required for transportation of 1.0 ton of Product and ~0.1 L of diesel is required for transportation of 1.0 ton of Iron Ore Raw Material.

Therefore, for 0.67 Million tons of Iron Ore transportation, 285 Tonnes of diesel is required and

For 1.0 Million tons of Raw Material transportation, 85 Tonnes of diesel is required



CO₂ emission from diesel for Products = Total diesel consumption (DC)* Emission factor of diesel (EF)

$$= 335 \times 2.69 \text{ t CO}_2/\text{litre}$$

$$= 766.65 \text{ CO}_2/\text{ton of Product}$$

CO₂ emission from diesel for Raw Materials = Total diesel consumption (DC)* Emission factor of diesel (EF)

$$= 100 \times 2.69 \text{ t CO}_2/\text{litre}$$

$$= 228.65 \text{ CO}_2/\text{ton of Raw Material}$$

4.8 TOTAL CO₂ EMISSIONS BY VARIOUS PLANT ACTIVITIES

The total CO₂ emissions from various Iron Ore plant activities have been summarized in below table.

TABLE 7 PROPOSED CO₂ EMISSIONS FROM IRON ORE PLANT

Sr. No.	Particular	Amount CO ₂
Scope-I		
1.	CO ₂ emissions from Raw Material Stacking	430 tons CO ₂ e
2.	CO ₂ emissions from Pellet Fine Production	8500 tons CO ₂ e
3.	Emissions for Pellet Production	1020 tons CO ₂ e
4.	Emissions From D.G Sets	50.8 Kg CO ₂ /ton
Scope-II		
1.	CO ₂ emissions from power consumption through grid	7.8 Kg/ton Products
Scope-III		
2.	CO ₂ emission from diesel due to transport of Product	766.65 CO ₂ /ton of Product
3.	CO ₂ emission from diesel due to transport of Raw Material	228.65 CO ₂ /ton of Raw Material

4.9 CO₂ SEQUESTRATION BY PLANTATION

Since plants can play an important role in reducing air pollution, the concept of greenbelt development in and around industrial areas has gained much attention in the recent past. It is applied as a pollution mitigation tool in industrial sites, urban development or for historical site/sensitive area protection plan. Vegetation acts as living filters to minimize air pollution by absorption, adsorption, detoxification, accumulation and/or metabolism without sustaining serious foliar damage or decline in growth. Identification of suitable plant species for green belts is very important. Green belt needs an appropriate scientific design for effective reduction in air pollution. Tree height, width of green belt, distance of green belt from the source, visibility etc. are some design parameters of green belts to be considered for effective air pollution reduction. The carbon sequestration potential of the plant species present in green belt was estimated and suitable plant with maximum sequestration of CO₂ was recommended. Carbon sequestration is nothing but capturing atmospheric carbon dioxide or anthropogenic CO₂ from large scale stationary sources like metallurgy industry it is released to the atmosphere. Once captured, the CO₂ gas is put into long term storage. CO₂ sequestration in plants has the potential to significantly reduce the level of carbon that occurs in the atmosphere. Terrestrial or biological sequestration means using plants to capture CO₂ from the atmosphere and then storing it as carbon in the stems and roots of the plants as well as in the soil. The green belts in industrial area acts as sink for capturing and storing carbon dioxide released from the industries.

The carbon dioxide sequestered in plant species are determined based on following method:



CARBON MANAGEMENT PLAN

FOR

**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,
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FOMENTO

M/s. Greater Ferromet

(Division of Sociedade De Fomento Industrial Private Limited)

**Village Santona, Sanguem Taluka,
South Goa District, Goa.**



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1. INTRODUCTION:

In alignment with the Glasgow COP 26 Climate Summit's ambitious goals, Company decarbonization program is designed to address the multifaceted challenges of climate change through a comprehensive strategy. The program encompasses a detailed assessment of the company's current carbon emissions, establishing a robust carbon budgeting and balancing framework, and implementing carbon sequestration activities. A pivotal component of our strategy is the Carbon Capture, Utilization, and Storage (CCUS) initiative, which not only mitigates emissions post-offset but also explores innovative uses for captured carbon.

Aiming to significantly reduce the carbon intensity of our operations and supply chains. This includes a clear energy transition pathway from fossil fuels to renewable energy sources, ensuring all activities and assessments are measurable, monitorable, and adhere to defined time frames. The adoption and implementation status of these plans are meticulously documented to track progress towards our long-term target of achieving "Net Zero" emissions.

This report outlines the decarbonization program for the Iron Ore Wet Beneficiation Plant located in Village Santona, Sanguem Taluka, South Goa District, Goa, India. The report aims to significantly reduce the plant's carbon footprint while increasing its production capacity from 0.64 Million TPA to 0.674 Million TPA (throughput of 0.914 Million TPA to 1.0 Million TPA) through modernization.

Average steel emissions intensity by country

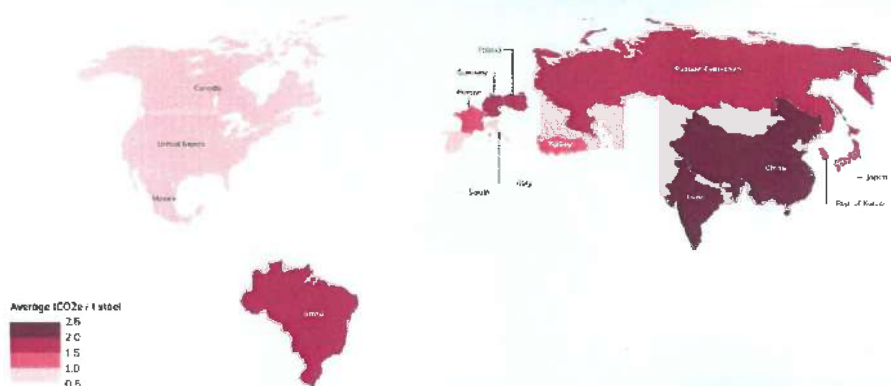


FIGURE 1 AVERAGE STEEL EMISSION INTENSITY BY COUNTRY

2. INTRODUCTION OF THE PROJECT PROPONENT

A. PROJECT PROPONENT -

Sociedade De Fomento Industrial Private Limited is a company involved in mineral resources industry since mid 1950 s'. The activities include resource development (exploration, excavation, and mineral processing), logistics (surface and marine), and sales (international and domestic). The company operates metalliferous mines in Goa, Maharashtra and Karnataka which includes minerals such as Iron ore and Bauxite. The company has a mineral processing unit named 'Greater Ferromet', a wet beneficiation plant involved in beneficiating Iron ore located in Santona Village



of Sanguem Taluka in South Goa district. This unit is strategically placed in the midst of a cluster of Iron Ore mines in the region which sources iron ore as feed to the plant. The process involves wet beneficiation of ROM wherein the grades of Iron ore is upgraded.

B. BRIEF DESCRIPTION OF NATURE OF THE PROJECT

M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited) is proposing 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 under category 2(b) of EIA Notification 2006 as amended thereof.

NOC for installation of plant was obtained from Office of Village Panchayat-Sanvordem, Sanguem, (Goa) vide Letter No. V.P.S/Cert./85-86/222 dated 04.07.1985.

NOC to establish the plant was obtained from the Directorate of Health Service, Environmental and Pollution Control Wing, Panaji Goa, vide letter No. DHS/EPCW/NOC/85-86/1796 dated 26.08.1985.

Mining operations in Goa was 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 then, the Plant has not been in operation for the want of raw material.

The Goa State Govt. in September 2022, has started the process for e-auctioning the mining blocks for grant of mining lease pursuant to the Hon'ble Supreme Court's Judgement. There is a high likelihood that the Iron Ore mining will commence in the State of Goa in the year 2023-24, making available the raw material needed to run the Beneficiation plant.

Presently, Goa State Pollution Control Board has granted Consent to Operate vide its letter no. No. 12/2022-PCB/1253953/R0009656 dated 03.03.2023 for a production capacity of 53,333 MT/month (200 TPH Throughput) of Iron Ore and is valid upto 22.07.2027.

Based upon the principles of mineral conservation and sustainability of operations, the Company is introducing i) Grinding circuit, ii) Horizontal Vacuum Belt Filter (HVBF), iii) High Gradient Magnetic Separator (HGMS) iv) Pressure Filter (for thickening of tailing in cake form) to the current flow sheet of the plant on account of modernization. This will help in upgrading of the mineral and also help in higher recovery of mineral.

TABLE 1 BRIEF DESCRIPTION OF NATURE, SIZE AND LOCATION OF PROJECT

S. No.	Particulars	Details
A.	Nature of the Project	Enhancement Project
B.	Size of the Project	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.
C.	Location Details	
1.	Villages	Santona
2.	Tehsil	Sanguem
3.	District	South Goa
4.	State	Goa
D.	Geographical Extent of the Plant Site	

S. No.	Particulars	Details																														
1.	Latitude & Longitude	Co-ordinates of the Prominent corner points of the beneficiation plant area (Project area)																														
		<table><tr><th>Boundary Points</th><th>Latitude</th><th>Longitude</th></tr><tr><td>BP-A</td><td>15° 18' 36.2799" N</td><td>74° 09' 24.4869" E</td></tr><tr><td>BP-B</td><td>15° 18' 32.7643" N</td><td>74° 09' 14.3153" E</td></tr><tr><td>BP-C</td><td>15° 18' 19.0907" N</td><td>74° 09' 21.1600" E</td></tr><tr><td>BP-D</td><td>15° 18' 20.8236" N</td><td>74° 09' 22.1463" E</td></tr><tr><td>BP-E</td><td>15° 18' 19.6267" N</td><td>74° 09' 24.8545" E</td></tr><tr><td>BP-F</td><td>15° 18' 15.9996" N</td><td>74° 09' 24.7030" E</td></tr><tr><td>BP-G</td><td>15° 18' 15.2632" N</td><td>74° 09' 26.7156" E</td></tr><tr><td>BP-H</td><td>15° 18' 18.3026" N</td><td>74° 09' 29.1629" E</td></tr><tr><td>BP-I</td><td>15° 18' 21.9808" N</td><td>74° 09' 29.4891" E</td></tr></table>	Boundary Points	Latitude	Longitude	BP-A	15° 18' 36.2799" N	74° 09' 24.4869" E	BP-B	15° 18' 32.7643" N	74° 09' 14.3153" E	BP-C	15° 18' 19.0907" N	74° 09' 21.1600" E	BP-D	15° 18' 20.8236" N	74° 09' 22.1463" E	BP-E	15° 18' 19.6267" N	74° 09' 24.8545" E	BP-F	15° 18' 15.9996" N	74° 09' 24.7030" E	BP-G	15° 18' 15.2632" N	74° 09' 26.7156" E	BP-H	15° 18' 18.3026" N	74° 09' 29.1629" E	BP-I	15° 18' 21.9808" N	74° 09' 29.4891" E
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3.	Toposheet No.	Core: D43C3(48I/3) Buffer: D43C3(48I/3), D43C4(48I/4)																														
E.	Area Details																															
1.	Total Project Area	15.77 ha																														
2.	Greenbelt / Plantation Area	Out of the total plant area of 15.77 ha, 5.0 ha (i.e., 31.71% plant area) area already been developed under greenbelt / plantation. The same will be ramped up to 5.22 (33.10%) and the plantation density will be maintained @2500trees/ha via gap plantation. Also, company has proposed to develop additional 170-meter (0.17 ha area with 425 additional trees) stretch greenbelt on the eastern side of the plant boundary.																														
E.	Environmental Setting Details (with approximate aerial distance from the nearest plant boundary & direction from the centre of the plant site)																															
1.	Nearest Village	Devnamol Village (800 meters in SE direction)																														
2.	Nearest Town	Curchorem (7.0 km in SW Direction)																														
3.	Nearest National / State Highway	- SH 7 (1.7 km in West Direction) - SH 8 (7.0 km in NW Direction) - SH 6 (6.0 km in SW Direction) - NH 4A (6.0 km in NNE Direction)																														
4.	Nearest Railway Station	- Kalem Railway Station (3.2 km in SE direction) - Curchorem Railway Station (6.7Km in SW direction) - Kulem Railway Station (9.5 km in ENE direction)																														
5.	Nearest Airport	Dabolim Airport (34 km in NW Direction)																														
6.	National Parks, Wildlife Sanctuaries, Biosphere Reserves, Reserve / Protected Forests within 10 km radius	- Bhagwan Mahavir Wildlife Sanctuary & National Park (1.011 km in East direction) and its ESZ (11.0 meters in East direction) - Netravali Wildlife Sanctuary (7.26 km in SE direction) No other National Park, wildlife corridors and Biosphere Reserve falls within the 10 km radius area.																														
7.	Reserve Forests (RF) / Protected Forests (PF) within 10 km radius	- Kolem Reserved Forest (0.2 km in East direction) - Sanguem Reserved Forest (3.3 km in West direction) Note: Apart from this, there are many small patches of forest area in 10 km radius of plant site. Details of the same are given in figure 11.																														
8.	Water Bodies (within 10 km radius)	- Kalay River (115 meters in East direction) - Dudhsagar River (3.0 km in North direction) - Sanguem River (8.0km in SW direction) - Panduranga Nala (7.0 km in West direction) - Ugem River (8.0 km in SSE direction) - Zuari River (5.4km in WSW direction) - Gulori River (9.5 km in South direction)																														



S. No.	Particulars	Details
		- Paroda River (9.5 km In WSW direction)
9.	Seismic Zone	Zone III [as per IS 1893 (Part-I): 2002]
F.	Cost details	
1.	Total Cost of the Project	7940Lakhs

3. SCOPE OF WORK

This report has been prepared in reference to the ToR issued by MoEFCC, New Delhi vide file no. IA-J-11011/434/2023-IA-II(IND-I) dated 01.04.2024.

As per the Standard ToR Point No. 7(i) "Project proponent shall submit a study report on Decarbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage after 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 monitorable with defined time frames."

As per the Standard ToR Point No. 7(ii) "Details of adoption/ implementation status/plan to achieve the goal of Glasgow COP 26 Climate Submit with regard to enhance the non-fossil energy, use of renewable energy, minimization of net carbon emission and carbon intensity with long-term target of "Net Zero" emission."

C. LOCATION OF THE PROJECT

The Project is located at Survey No. 9/1(Part) & 10/1 (Part) of Santona Village, Sanguem Taluka, South Goa District, Goa. Location plan, Google Earth downloaded image of the plant site showing corner co-ordinates, Environmental settin Map and Detailed Engineering Plant layout is given in figure 2, figure 3, figure 4 and figure 5 respectively.



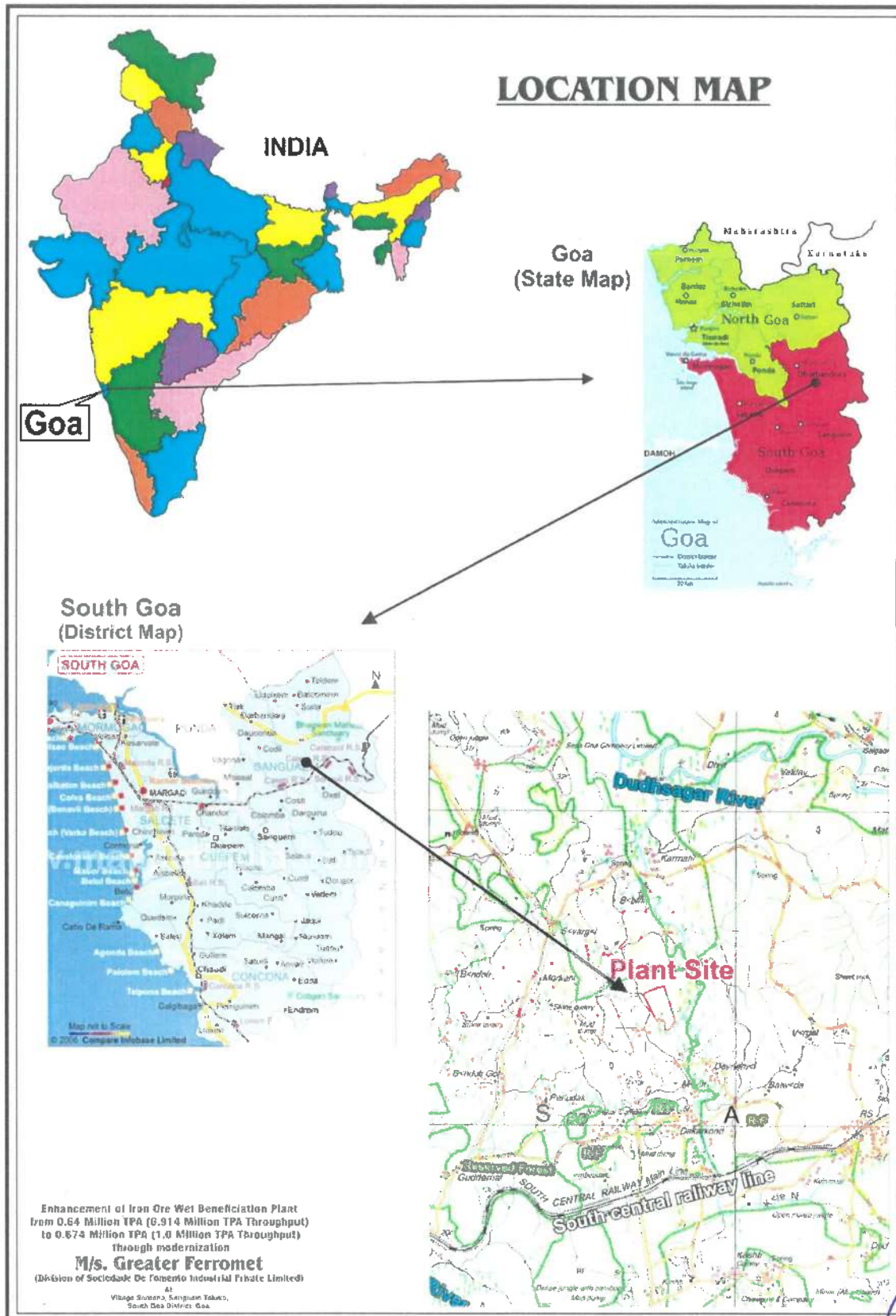


FIGURE 2 LOCATION MAP



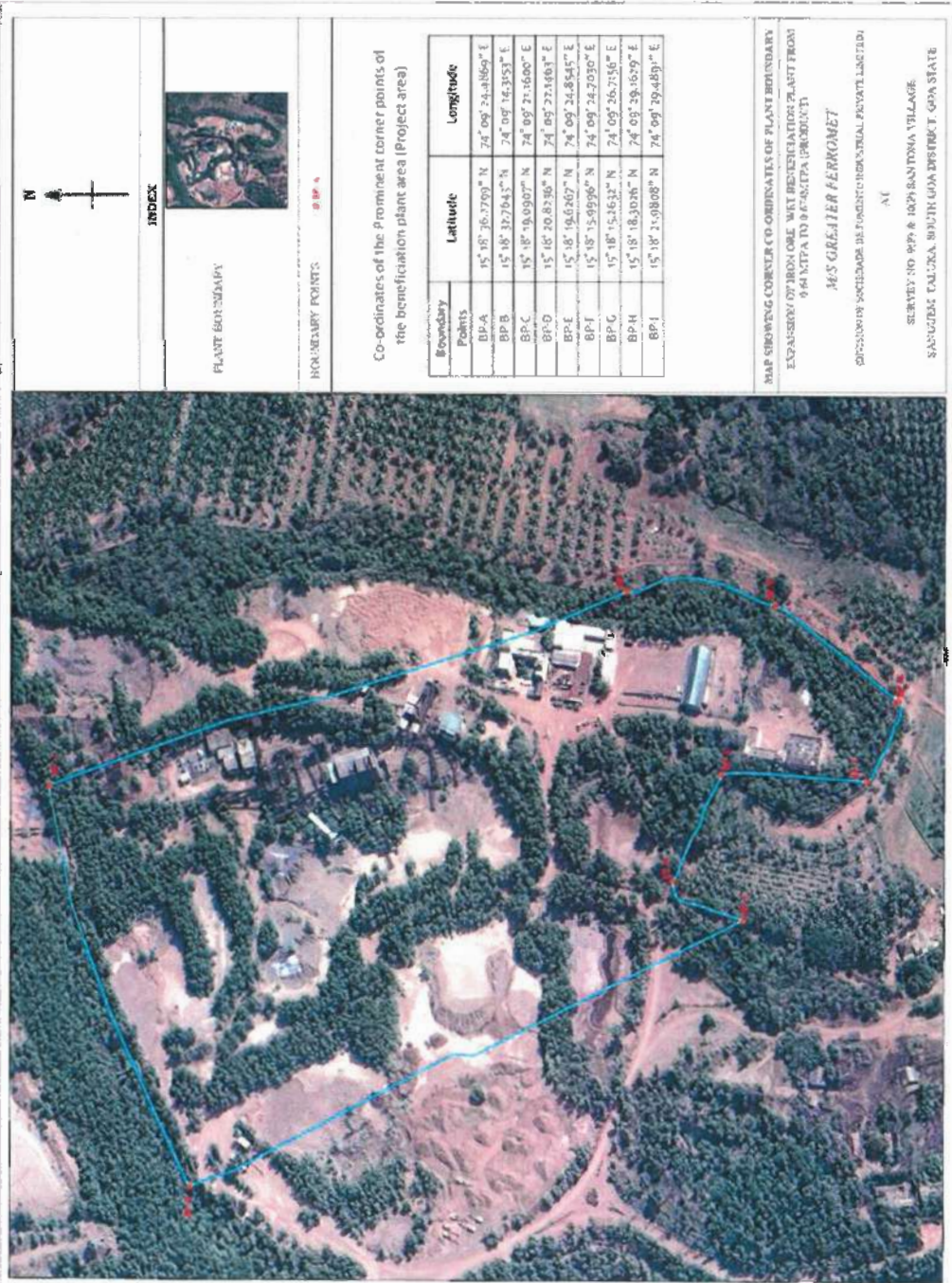


Figure 3 GOOGLE EARTH DOWNLOADED IMAGE OF THE PLANT SITE SHOWING CORNER CO-ORDINATES



FIGURE 4 ENVIRONMENT SETTING MAP

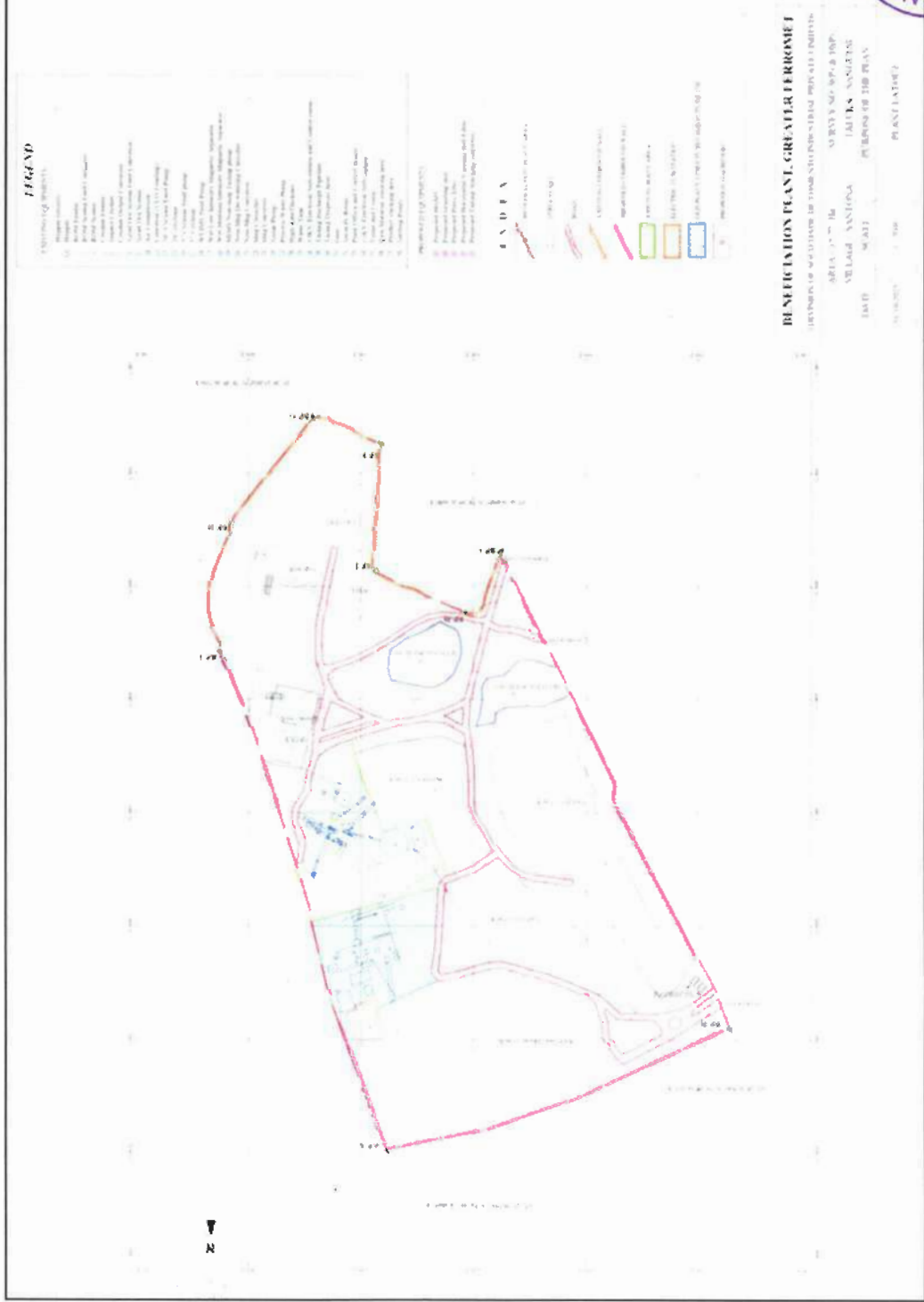
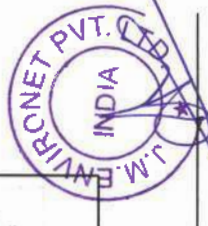


FIGURE 5 DETAILED ENGINEERING PLANT LAYOUT



D. DETAILS OF THE PLANT SITE

Plant area is 15.77 Ha. The proposed enhancement will be done within the existing plant premises and no additional land will be required for the same.

Mining operations in Goa were stopped in 2012 pursuant to Orders by Govt. of Goa, followed by Justice Shah Commission report, MoEF&CC and judgement passed by Hon'ble Supreme Court in the matter of 435 of 2012. Since then, the Plant has not been in operation for the want of raw material.

Presently, Goa State Pollution Control Board has granted Consent to Operate 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 and is valid upto 22.07.2027 to M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited).

The Plant is strategically located in terms of proximity of existing Iron ore mines, availability of adequate land, availability of water for process, availability of power, proximity to jetty & road connectivity. The proposed enhancement will be done within the total plant area i.e., 15.77 ha. Thus, no additional land will be required for the proposed enhancement project.

- Plant feed i.e. low-grade Iron Ore will be available from the surrounding mines at competitive price.
- The site is at a favourable location to cater the needs of other Mine operators to avail the beneficiation facilities i.e. to upgrade their low-grade Iron Ore.
- Good connectivity to State highway (SH-7) and National Highway (NH-748), for easy movement of raw materials, products, etc

E. SIZE OR MAGNITUDE OF OPERATION

M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited) is proposing 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. Details regarding Size or Magnitude of Operation in terms of Capacity and Cost are given in Table 2 and Table 3, respectively.

TABLE 2 SIZE OR MAGNITUDE OF OPERATION IN TERMS OF CAPACITY

S. No.	Particulars	Product/By Product	Existing Capacity (Million TPA)	Additional Capacity (Million TPA)	Total Capacity after Enhancement (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.

TABLE 3 SIZE OR MAGNITUDE OF OPERATION IN TERMS OF COST

S. No.	Particular	Details
1.	Cost of the Existing Project (A)	4440Lakhs
2.	Cost of the proposed enhancement / modernization (B)	3500 Lakhs
3.	Total Cost of the project(A+B)	7940Lakhs

F. MAJOR FACILITIES AND ASSOCIATED ACTIVITIES PROPOSED.

The proposed enhancement will take place by inclusion of following Equipment to the existing plant circuit-

- Grinding Mill Circuit
- Horizontal Vacuum Belt Filter (HVBF)
- High Gradient Magnetic Separator (HGMS)
- Pressure Filter (for thickening of tailing in cake form)

G. REQUIREMENTS FOR THE PROJECT

The project requirements such as raw materials, fuel, water, power, manpower, with source of supply is described in the sections below.

Raw Material Requirement

The major source of raw material required for the operation of the wet beneficiation plant is low grade Iron ore available from the nearby Iron Ore mines. As per the plant capacity, 1.0 Million TPA of low grade Iron ore feed is needed. Transportation of raw material sourced is proposed by road.

TABLE 4 RAW MATERIAL REQUIREMENT, SOURCE & MODE OF TRANSPORTATION

S. No.	Name of Raw Material	Quantity (Million TPA)			Source	Capacity of Trucks	Distance & Mode of Transportation
		Existing	Additional	Total After Enhancement			
1.	Iron Ore (ROM)	0.914	0.086	1.0	Block IV- Kalay Mineral Block and JKC Universal Solution	10 Tonnes / 25 Tonnes	2- 25 km by road

TABLE 5 DETAILS OF RAW MATERIAL

Name of Raw Material	Fe%	Al ₂ O ₃ %	SiO ₂ %	Feed Size
Iron Ore (ROM)	< 55	4 to 6	6 to 8	-200 mm

H. LINKAGE OF RAW MATERIAL:

The Goa State Govt. in September 2022, has started the process for e-auctioning the mining blocks for grant of mining lease pursuant to the Hon'ble Supreme Court's Judgement. There is a high likelihood that the Iron Ore mining will commence in the State of Goa in the year 2023-24, making available the raw material needed to run the Beneficiation plant.

ROM (Iron Ore) to be used in the said plant will be sourced from the following 2 sources:

- Mines belonging to Company & sister concern.
- Low grade ore purchased from 3rd party sources; 3rd party entities registered under Rule 45 of MCDR.

Copies of Memorandum of Understanding (MoU) for supply/ purchase of raw material with sister concern, third party sources / third party entities are given below:



- MoU between M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited) and M/s. Fomento Resources Private Limited for supply of raw material from Block IV- Kalay Mineral Block vide document no. 841355 dated 13.12.2023.
- MoU between M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited) and JKC Universal Solution for supply of raw material vide document no. 842274 dated 29.12.2023.

I. IRON ORE BENEFICATION TECHNOLOGY, PROCESS DESCRIPTION & MODIFICATION

The Beneficiation Plant is proposed to produce Iron Ore product having grade of +57% Fe from feed having low grade Iron Ore, by addition of Grinding Mill Circuit, Horizontal Vacuum Belt Filter (HVBFB), High Gradient Magnetic Separator (HGMS), Pressure Filter (for thickening of tailing in cake form), etc., with maximum possible Fe recovery and minimal environmental impact.

J. TECHNOLOGY & PROCESS DESCRIPTION**Iron Ore Beneficiation:**

Beneficiation process start with feeding of low-grade Iron Ore to the plant, Crushing and Sizing of Iron ore, Wet Screening, Classification, Cyclonic separation, Grinding, Wet Low Intensity Magnetic Separation (WLIMS), Wet Medium Intensity Magnetic Separation (WMIMS), High Gradient Magnetic Separator (HGMS), Thickening and Filtration. In the present case, low grade iron ore to the extent will be beneficiated to produce high grade products of various fractions. While designing the beneficiation process, latest technological developments in the field of Iron Ore beneficiation to obtain superior grade of the product with high recovery are considered.

Beneficiation Process

Based on the characteristics of the Iron Ore from the adjacent mines, a combination of crushing & screening, classification, Cyclonic separation, low, medium and high intensity magnetic separation, grinding processes are employed. The annual feed to the beneficiation plant will be 1.0 Million tonnes iron ore which will produce about 0.674 Million tonnes per annum of Product.

Run-of-Mine ore (ROM) as raw material from adjacent mines having low grade Iron Ore will be fed to the Beneficiation Plant by Dumpers / Trucks into the Hopper (1), which has stationary inclined Grizzly on the top, to scalp out boulders above 200 mm size. -200 mm size material through Hopper and Vibrating-feeder (2) is fed to ROM Screen (3) through a Conveyor.

The Screen has top deck of 40 mm and bottom deck of -8 mm size. Required volume of water is added on the screen through spray jets - 200 +8 mm size material from the Double Deck Screen is passed through an impact Crusher (4) to reduce the size and this Material from the crusher is conveyed to Sized Ore Screen to take out - 40 +8 mm Lumps as product, + 40 mm material is recirculated back to crusher which is in a closed circuit, -8 mm fraction of the slurry from ROM Screen is pumped to Classifying Cyclone (5), the Underflow fraction from Classifying cyclone is subjected to further size reduction to 100# in Grinding Mill (5), the obtained ground slurry is fed to cyclone(5).

The under-flow fraction from cyclone (5) along with sized ore screen underflow is subjected to screening. The oversize fraction (i.e., +1 mm) is recirculated back to Grinding Mill while under size Material (-1 mm) is fed to dewatering classifier for dewatering. Underflow fraction from Classifier

is conveyed and stacked as Sinter fines Product (-10 mm) whereas overflow of classifier is recirculated to circuit.

The Over flow fraction from the Classifying and Grinding Mill cyclone is fed to Secondary stage fine cyclone (6) for desliming. Underflow fraction of Desliming cyclone is Passed through Wet Low Intensity Magnetic Separator (WLIMS (8)) for Separating Magnetic Fraction, the Non- Magnetic obtained from WLIMS is passed through Wet Medium Intensity Magnetic separator (WMIMS (9)) to recover further Magnetic Fraction in the feed Slurry. Non- Magnetic fraction obtained from WMIMS is fed to linear screen to remove trash. The undersize fraction from linear screen is fed to High Gradient Magnetic Separator (HGMS (15)) to recover Paramagnetic Material in the feed slurry. The magnetic fractions from three separators are subjected to dewatering by using Horizontal Vacuum Belt Filter (HVBF (16)), the obtained Filter product from HVBF is conveyed and stacked separately as Pellet Fines (-100#). Water recovered from the slurry is stored in process water tank for recirculation.

Non- Magnetic fraction from HGMS and Overflow from the fines Cyclone is pumped to Thickener (17) where it is treated with Lime and Flocculent for faster settling. The settled underflow of thickener is further dewatered in Pressure Filter (18).

The dewatered product obtained is sent to Tailing Stack as Tailing, recovered water from thickener and filter is used for recirculation in the circuit. The overall recovery, comprising lump ore, sinter feed and pellet feed will be about 67.4%.



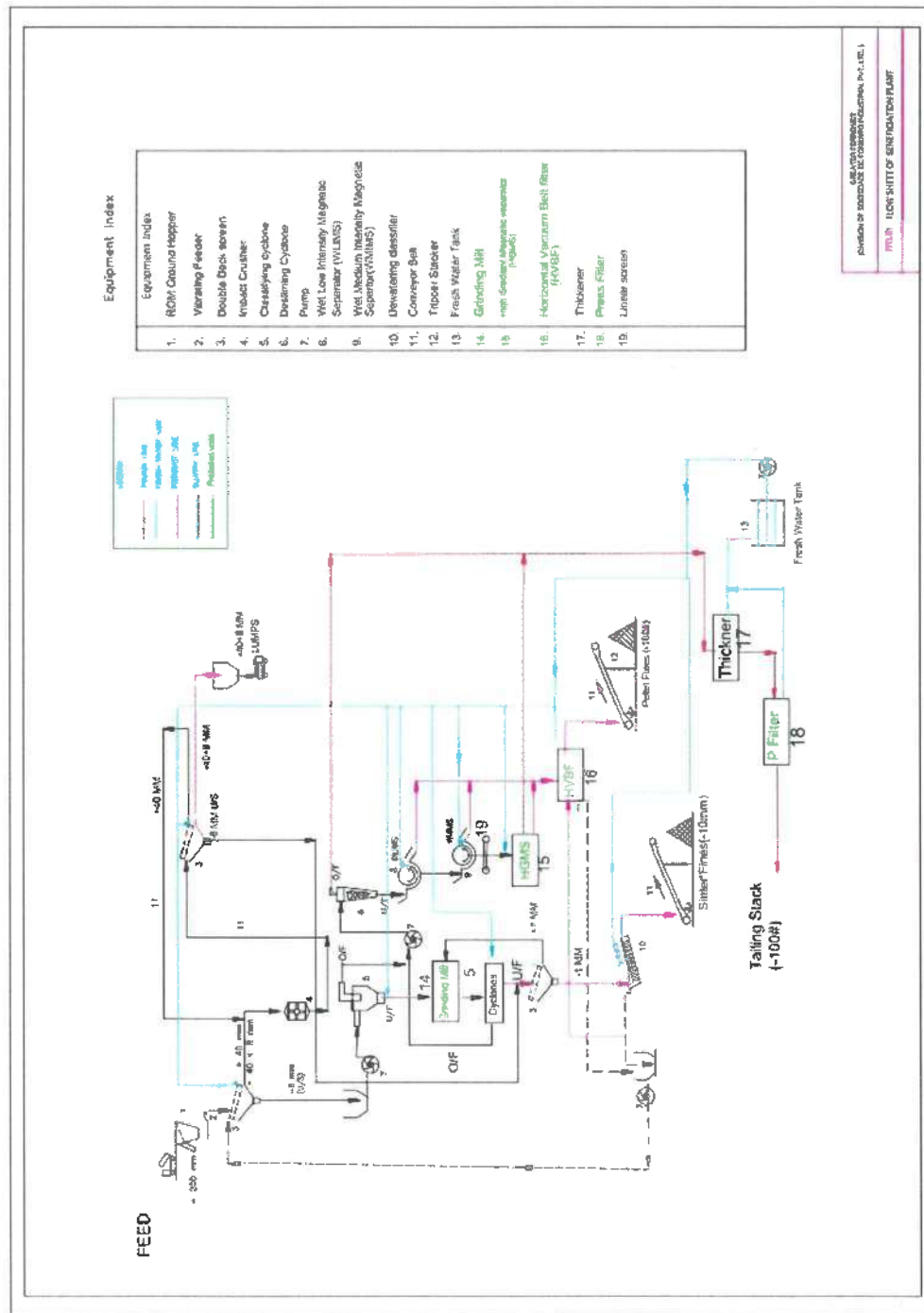


FIGURE 6 PROCESS FLOW OF WET IRON ORE BENEFICIATION PLANT



4. CARBON MANAGEMENT PLAN

Climate change is certainly without argument the most serious global environmental crisis that we face. It is not the only environmental problem, but it is unique in its multi-scalar characteristics, from the global to the local. Climate change is one of the key sustainable development issues of the present world. Greenhouse gases from human activities are the most significant driver of climate change since the mid-20th century. India is the world's third largest emitter of greenhouse gases (GHGs) after China and US. An increase in the atmospheric concentrations of GHG produces a positive climate forcing, or warming effect. From 1990 to 2015, the total warming effect from greenhouse gases added by humans to the Earth's atmosphere increased by 37%.

Assessments by Intergovernmental Panel on Climate Change (IPCC) suggest that the earth's climate warmed 0.85° C between 1880 and 2012. A Special Report by IPCC shows that holding the increase in Global Warming even to 1.5° C above pre-industrial levels would avoid the worst effects of climate change against the expected increase of 2° C which would result in large scale droughts, famine, heat stress, loss of biodiversity and or entire ecosystem.

Limiting the warming of the earth to 1.5° C depends on GHG emissions over the next decades which needs to be limited to 25-30 Gt CO₂ eq. India has pledged to reduce the GHG emission intensity of its economy by 33-35% by 2020 compared to 2005 levels. It also plans for 40% of installed electricity to be renewable or nuclear by 2030.

In this line many companies are making efforts to manage and reduce air emissions through regulatory requirements or emerging voluntary programmes being promoted by national governments. As a result, companies must be able to understand and manage their air emissions if they are to ensure long-term success in a competitive business environment, and have the capacity to address both current and potential failure pollution and climate change policies.

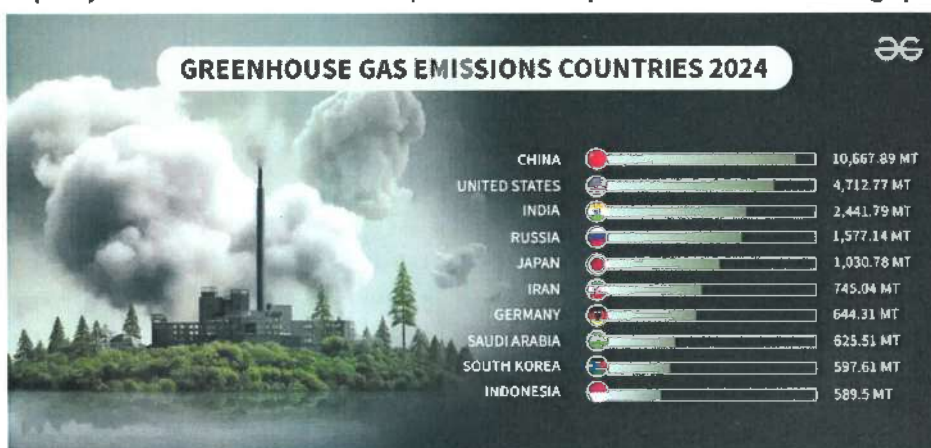


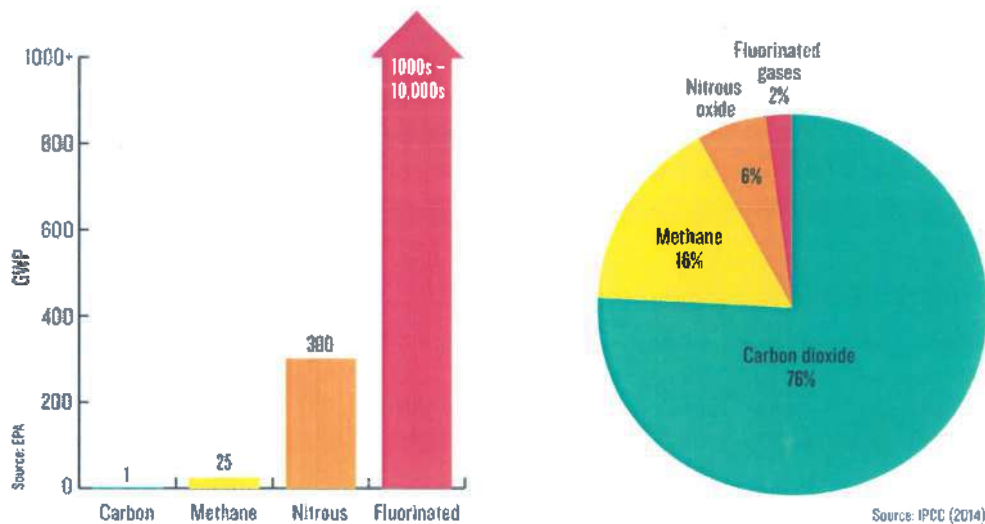
FIGURE 7 GRAPH SHOWING LEADING CO₂ EMITTERS ACROSS THE GLOBE

Source: <https://www.geeksforgeeks.org/global-greenhouse-gas-emissions-data/>

4.1 GREENHOUSE GASES AND ROLE IN CLIMATE CHANGE

Greenhouse gases have the property to trap the incoming solar radiation and do not let it to escape back to the space thus heating up the earth surface, a phenomenon commonly known as Global warming. The major greenhouse gases covered by the UNFCCC include Carbon dioxide

(CO₂), methane (CH₄), Nitrous oxide (N₂O), sulphur hexafluoride (SF₆), perfluorocarbons (PFCs) and hydrofluorocarbons (HFCs) of which CO₂ is the major contributor of towards the global warming due to its high concentration and its high residence time.



The global warming potential (GWP) of human-generated greenhouse gases is a measure of how much heat each gas traps in the atmosphere, relative to carbon dioxide.

How much each human-caused greenhouse gas contributes to total emissions around the globe.

FIGURE 8 PERCENTAGE CONTRIBUTION OF DIFFERENT GHGS TOWARDS GLOBAL WARMING

4.2 CONTRIBUTION OF IRON ORE BENEFICIATION INDUSTRY TOWARDS GHG EMISSIONS

The carbon emissions from an iron ore beneficiation plant are a part of the broader steelmaking industry's environmental impact. The steel industry, including iron ore processing, is one of the most energy-intensive sectors, contributing around 8% to 9% of global carbon dioxide emissions. Specifically, the iron ore beneficiation process involves the pellet fines process, where indirect CO₂ emissions result from the fuel used for the burning process and in the form of process emissions due to the carbon content of the iron ores.

Globally, the iron and steel production emit a combined 3.4 billion tonnes of carbon annually, which is equivalent to 7% of global emissions. This significant contribution to global emissions underscores the urgency for the steel industry to transition towards more sustainable practices, such as using higher-grade iron ore for steelmaking, which can reduce the carbon footprint.

The beneficiation process, storage of raw material and product, contributes to minor amount of emissions of inhalable particles (PM_{2.5}). The carbon intensity curve for iron ore covers almost all of the global seaborne supply, with the assets covered accounting for over 34 million tonnes (Mt CO₂e) of Scope 1 and 2 CO₂ equivalent emissions, plus an additional 62Mt CO₂e associated with land and sea freight to the importing country port.

In terms of the percentage contribution of iron ore beneficiation to global carbon emissions, it is challenging to isolate the exact figures as they are integrated within the overall emissions of the steel industry.



To mitigate the impact on global emissions, the industry is exploring innovative solutions like replacing fossil fuel-based gases with green hydrogen produced via renewable energy-powered electrolysis in the DRI process⁴. These efforts are crucial for meeting the long-term target of "Net Zero" emissions and aligning with the goals set forth by International climate summits such as the Glasgow COP 26.

The leading CO₂ emitters across the globe have been depicted below:

4.3 NEED OF ASSESSMENT OF CARBON EMISSION AND REDUCTION OPTIONS

Although there are no statutory obligations on companies to measure and report total air emissions in India, the preparation of air emissions inventories can be useful in internal company benchmarking, public reporting, product profiles, and emerging emissions trading. In the near future, it is also possible that voluntary actions to promote energy efficiency and GHG emissions mitigations, especially in large, organized industrial sectors like metallurgy will gain momentum. However, in order to bring the metallurgy sector in line with the Paris Agreement, its emissions need to fall by at least 16% by 2030.

Emissions from Steel Production

(tonnes of CO₂e per tonne of steel)

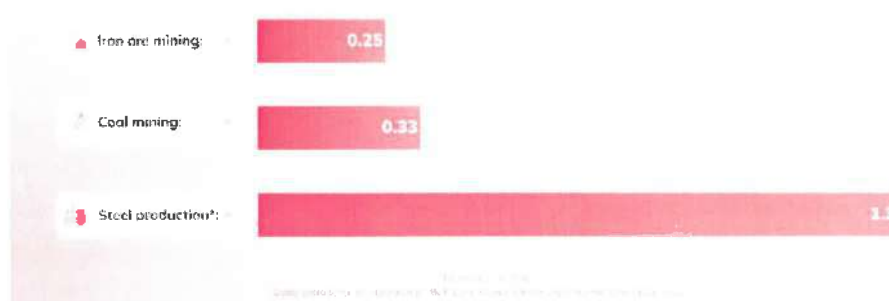


FIGURE 9 CO₂ EMISSION IN A STEEL PRODUCTION

4.4 METHODOLOGY

Greenhouse Gas Emission Inventorization study at an Iron Ore beneficiation facility / company involves the following procedure:

1. Identification of Emission sources
2. Classification of Emission sources as per Scope 1, 2 & 3
3. Identification & collection of various inputs / data(s) required for calculation of Emission sources
4. Calculate emission level using the above data

4.5 SOURCES OF CO₂ EMISSION FROM AN IRON ORE BENEFICATION PLANT

CO₂ emissions from a Iron Ore Beneficiation plant can be broadly classified into 3 categories:

- ✖ **Scope 1 Emissions:** Scope 1 emissions encompass direct greenhouse gas emissions that occur from sources. For an iron ore beneficiation plant, Scope 1 emissions includes:

- Emissions from combustion processes: This includes emissions from on-site combustion of fossil fuels for activities such as D.G. Sets and plant machineries.
- Fugitive emissions: These emissions can arise from various sources such as plant process, storage of materials and Transport of Mineral.
- ✕ **Scope 2 Emissions:** Scope 2 emissions involve indirect greenhouse gas emissions associated with the generation of purchased energy. For an iron ore beneficiation plant, Scope 2 emissions may include:
 - Electricity consumption: Energy used for powering equipment, lighting, and other operational needs, sourced from the grid or other energy providers.
- ✕ **Scope 3 Emissions:** Scope 3 emissions comprise all other indirect greenhouse gas emissions that occur as a result of the organization's activities, but from sources not owned or controlled by the organization. For an iron ore beneficiation plant, Scope 3 emissions may include:
 - Upstream emissions: Emissions associated with activities upstream, such as extraction and transportation of raw materials like iron ore, or other inputs.
 - Downstream emissions: Emissions occurring downstream of the organization's operations, including transportation and distribution of finished products to customers, as well as the use and disposal of those products.
 - Indirect emissions from purchased goods and services: Emissions associated with the production of goods and services purchased by the organization, including equipment, chemicals, and other inputs used in the beneficiation process.
 - Business travel: Emissions resulting from employee travel for work-related purposes, including commuting, business trips, and transportation of goods

Various parameter considered in these scopes are tabulated below:

TABLE 6 CATEGORIZATION OF SCOPE 1, 2 & 3 GHG EMISSIONS FROM IRON ORE BENEFICIATION INDUSTRY

S. No.	Category	Boundary
1.	Scope 1	• Emissions due to Storage of Mineral • Fuel consumption in D.G Sets for operation of plant machineries • Emissions due to Raw Material Handling equipment
2.	Scope 2	• Emission due to purchased electricity
3.	Scope 3	• Transportation- Emission due to raw material transportation through roads and Finish Products to Jetty. • Leased Assets- Emission due to hired pool vehicles, Leased offices & Guesthouses • Business Travel



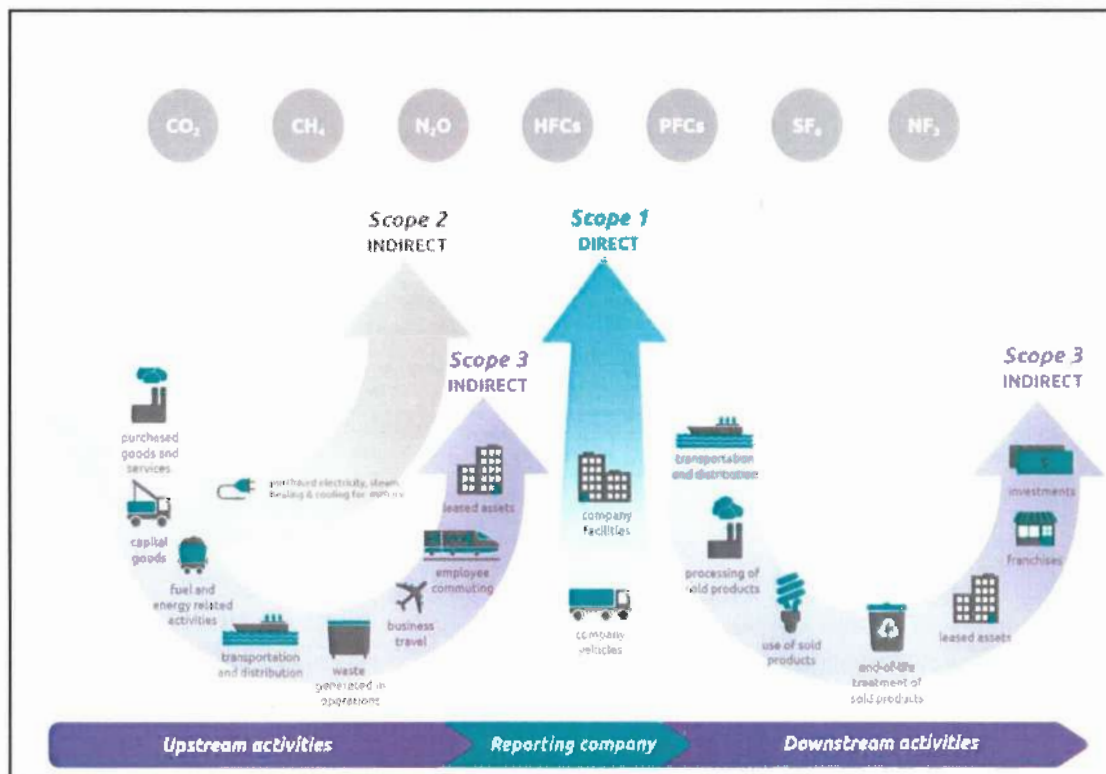


FIGURE 10 REPRESENTATION OF BOUNDARY OF SCOPE 1, 2 AND 3 EMISSIONS

Globally, the iron and steel production emits a combined 3.4 billion tonnes of carbon annually, which is equivalent to 7% of global emissions. This significant contribution to global emissions underscores the urgency for the steel industry to transition towards more sustainable practices, such as using higher-grade iron ore for steelmaking, which can reduce the carbon footprint.

4.6 DATA COLLECTED:

The data collected for the calculation has been tabulated below:

S. No.	Particular	Quantity
1.	Iron Ore required	1.0 MTPA
2.	Power required	8 MW
3.	Diesel required	493 TPA
4.	Calorific value	10875 Kcal/kg
5.	Emission factor for Diesel	2.69 Kg CO ₂ /litre

4.7 SOURCES OF CO₂ EMISSIONS

Through the plant operations it is observed that the sources of emissions can be categorized into four, which are as follows:



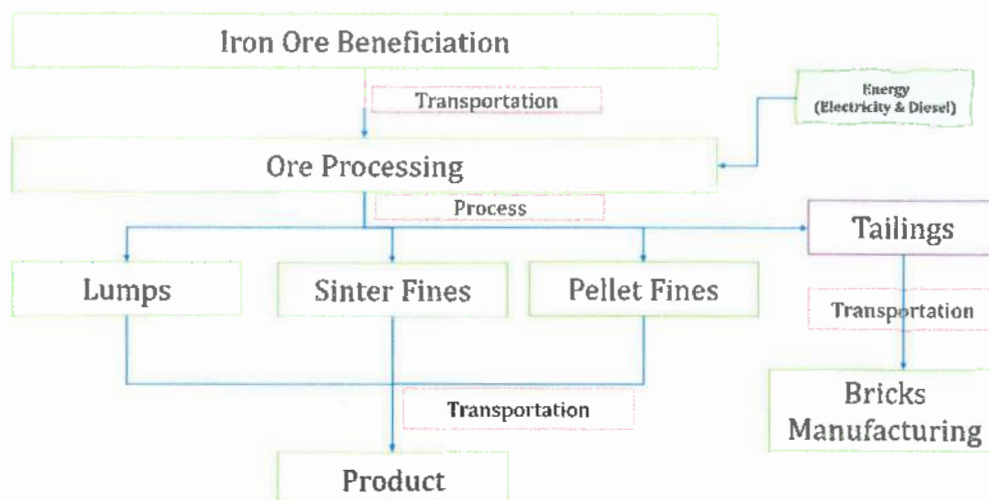


FIGURE 11 PROCESS FLOW OF IRON ORE BENEFICIATION PLANT

(i) **SCOPE-I EMISSION CALCULATION:**

A. EMISSIONS FROM PRODUCT AND RAW MATERIAL STACKING:

To calculate greenhouse gas (GHG) emissions associated with the storage of minerals, particularly in tailings or stockpiles, a methodology which involves estimating the amount of organic matter present and the rate of decomposition, as well as any fugitive emissions that may occur during storage activities. The approach which is used is emission factors based on empirical data or scientific studies.

Raw Material Stacking: The emission factor for Raw Material Stacking is generally around 0.005 tonnes of CO₂ per tonne of pellets fine processed.

Pellet Fines Processing: The emission factor for pellet production is generally around 0.03 tonnes of CO₂ per tonne of pellets Fines processed.

Sinter Fines Processing: Sinter Fine Production has a higher emission factor, typically ranging from 0.20 to 0.25 tonnes of CO₂ per tonne of sinter Fines processed

GHG Emissions = Volume of stored mineral × Emission factor

A. Emissions for Raw Material Stacking = $0.086 \times 10^6 \times 0.005 = 430$ tons CO₂e

B. Emissions for Sinter Fines Processing = $0.034 \times 10^6 \times 0.25 = 8500$ tons CO₂e

C. Emissions for Pellet Fines Processing = $0.034 \times 10^6 \times 0.03 = 1020$ tons CO₂e

B. EMISSIONS FROM D.G SETS:

In case of emergency or power backup company has two D.G. Sets of 200 KVA and 30 KVA which will be used.

Emission due to Deisel Generator = EF * DC

Where,

EF = 1.27 Kg CO₂/liter- Emission factor of diesel (Kg CO₂/liter)

DC= Total diesel consumption (litres/Ton Product)

For processing of 0.67 Million TPA Iron Ore. The generator would consume approximately 40 liter of diesel fuel per hour when operating at full load.



Therefore, for 80 liter of diesel is required per day for 2 hours. (Only in case of emergency)

Therefore,

CO₂ emission from diesel = Total diesel consumption (DC)* Emission factor of diesel (EF)

= 40 x 1.27 t CO₂/litre

= 50.8 Kg CO₂/ton of Processing of Iron Ores.

(II)

SCOPE-II EMISSION CALCULATION:

Emissions from electricity grid

Emissions due to use of electricity from grid is calculated by applying UNFCCC methodology "Tool to calculate project emissions from electricity consumption" is used to calculate emissions for electricity consumption from the grid. This tool provides procedures to estimate the project emissions associated with the consumption of electricity by the proposed project activity.

Project emissions from consumption of electricity from the grid are calculated based on the power consumed by the project activity and the emission factor of the grid, adjusted for transmission losses, using the following formula:

$$PE_{Grid} = EC * EF * (1+TDL)$$

Where:

- PE_{Grid}** - Project emissions from electricity consumption by the project activity
- EC = 8 MWh** - Quantity of electricity consumed by the project activity during the year (MWh);
- EF = 0.82t CO₂/MWh** Emission factor for the grid (tCO₂/MWh) [Central Electricity Authority, India default value for India]
- TDL = 3 %** Average technical transmission and distribution losses in the grid in year for the voltage level at which electricity is obtained from the grid at the project site

Therefore,

$$PE_{Grid} = 8 * 0.82 * (1 + 3/100) = 6.7568$$

$$PE_{Grid} = 7.8 \text{ Kg/ton Products}$$

(iii)

SCOPE-III EMISSION CALCULATION:

Plant activities include using heavy machinery consuming large quantity of diesel as fuel. Therefore, emissions pertaining to mining activities are estimated by considering the combustion of diesel fuel by the heavy machinery. The CO₂ emissions are estimated as follows:

$$\text{Emission due to transportation} = EF * DC$$

Where,

EF = 2.69 Kg CO₂/liter- Emission factor of diesel (Kg CO₂/liter)

DC= Total diesel consumption (litres/Ton Product)

~0.5 L of diesel is required for transportation of 1.0 ton of Product and ~0.1 L of diesel is required for transportation of 1.0 ton of Iron Ore Raw Material.

Therefore, for 0.67 Million tons of Iron Ore transportation, 285 Tonnes of diesel is required and

For 1.0 Million tons of Raw Material transportation, 85 Tonnes of diesel is required



CO₂ emission from diesel for Products = Total diesel consumption (DC)* Emission factor of diesel (EF)

$$= 335 \times 2.69 \text{ t CO}_2/\text{litre}$$

$$= 766.65 \text{ CO}_2/\text{ton of Product}$$

CO₂ emission from diesel for Raw Materials = Total diesel consumption (DC)* Emission factor of diesel (EF)

$$= 100 \times 2.69 \text{ t CO}_2/\text{litre}$$

$$= 228.65 \text{ CO}_2/\text{ton of Raw Material}$$

4.8 TOTAL CO₂ EMISSIONS BY VARIOUS PLANT ACTIVITIES

The total CO₂ emissions from various Iron Ore plant activities have been summarized in below table.

TABLE 7 PROPOSED CO₂ EMISSIONS FROM IRON ORE PLANT

Sr. No.	Particular	Amount CO ₂
Scope-I		
1.	CO ₂ emissions from Raw Material Stacking	430 tons CO ₂ e
2.	CO ₂ emissions from Pellet Fine Production	8500 tons CO ₂ e
3.	Emissions for Pellet Production	1020 tons CO ₂ e
4.	Emissions From D.G Sets	50.8 Kg CO ₂ /ton
Scope-II		
1.	CO ₂ emissions from power consumption through grid	7.8 Kg/ton Products
Scope-III		
2.	CO ₂ emission from diesel due to transport of Product	766.65 CO ₂ /ton of Product
3.	CO ₂ emission from diesel due to transport of Raw Material	228.65 CO ₂ /ton of Raw Material

4.9 CO₂ SEQUESTRATION BY PLANTATION

Since plants can play an important role in reducing air pollution, the concept of greenbelt development in and around industrial areas has gained much attention in the recent past. It is applied as a pollution mitigation tool in industrial sites, urban development or for historical site/sensitive area protection plan. Vegetation acts as living filters to minimize air pollution by absorption, adsorption, detoxification, accumulation and/or metabolism without sustaining serious foliar damage or decline in growth. Identification of suitable plant species for green belts is very important. Green belt needs an appropriate scientific design for effective reduction in air pollution. Tree height, width of green belt, distance of green belt from the source, visibility etc. are some design parameters of green belts to be considered for effective air pollution reduction. The carbon sequestration potential of the plant species present in green belt was estimated and suitable plant with maximum sequestration of CO₂ was recommended. Carbon sequestration is nothing but capturing atmospheric carbon dioxide or anthropogenic CO₂ from large scale stationary sources like metallurgy industry it is released to the atmosphere. Once captured, the CO₂ gas is put into long term storage. CO₂ sequestration in plants has the potential to significantly reduce the level of carbon that occurs in the atmosphere. Terrestrial or biological sequestration means using plants to capture CO₂ from the atmosphere and then storing it as carbon in the stems and roots of the plants as well as in the soil. The green belts in industrial area acts as sink for capturing and storing carbon dioxide released from the industries.

The carbon dioxide sequestered in plant species are determined based on following method:



THE METHOD TO CALCULATE AMOUNT OF CARBON SEQUESTERED THROUGH TREES IS AS FOLLOWS:**1. TREE HEIGHT AND DIAMETER BREAST HEIGHT (DBH):**

The diameter of the trees is taken from field measurement and the average height is obtained from secondary data sources.

2. ABOVE GROUND BIOMASS

AGB kg = Volume of tree (m^3) X wood density kg/m^3 .

$$V = \pi r^2 H$$

Where V = volume of the cylindrical shaped tree in m^3

R = Radius of the tree in meters

H = Height of the tree in meter

The radius of the tree is calculated from GBH of tree wood density is used from Global density database.

3. ESTIMATION OF BELOW GROUND BIOMASS (BGB)

The below-ground biomass (BGB) includes all biomass of live roots excluding fine roots. The BGB has been calculated by multiplying AGB X 0.26 factors as the root: shoot ratio, BGB is calculated by following

$$BGB \text{ (kg/tree)} = AGB \text{ (kg/tree)} \times 0.26.$$

4. ESTIMATION OF TOTAL BIOMASS

Total biomass is the sum of the above and below ground biomass.

$$TB = AGB + BGB \text{ (kg/tree)}.$$

5. ESTIMATION OF CARBON

Generally, for any plant species 50% of its biomass is considered as carbon.

$$\text{Biomass} \times 50\%$$

6. DETERMINE THE WEIGHT OF CARBON DIOXIDE SEQUESTERED IN THE TREE

CO₂ is composed of one molecule of Carbon and 2 molecules of Oxygen.

The atomic weight of Carbon is 12.001115.

The atomic weight of Oxygen is 15.9994.

The weight of CO₂ is $C + 2 \times O = 43.999915$.

The ratio of CO₂ to C is $43.999915/12.001115 = 3.6663$.

Therefore, to determine the weight of carbon dioxide sequestered in the tree, multiply the weight of carbon in the tree by 3.6663

Therefore, to determine the weight of carbon dioxide sequestered in the tree, multiply the weight of carbon in the tree by 3.67.

Source: (SaraI et.al. 2008)

7. TOTAL CO₂ SEQUESTRATION

Species-wise sequestration is obtained by multiplying sequestration per tree with number of trees of that species



8. DETERMINE THE WEIGHT OF CO₂ SEQUESTERED IN THE TREE PER YEAR

Sr. No.	Scientific Name	Common Name	DBH	Average Height (M)	AGB	BGB	TB	TC	Carbon (Kg/Tree)	Number Of Trees	Carbon Sequestered by Total No. Trees
1.	<i>Acacia auriculiformis</i>	Earleaf acacia	0.6	17	12.5	3.25	15.8	7.88	28.90	925	26733.7
2.	<i>Artocarpus heterophyllus</i>	Jackfruit	0.9	10.5	9.4	2.44	11.8	5.92	21.73	867	18843.2
3.	<i>Azadirachta indica</i>	Neem	0.6	15	12.4	3.22	15.6	7.81	28.67	568	16284.6
4.	<i>Anacardium occidentale</i>	Cashew	0.3	12	11.5	2.99	14.5	7.25	26.59	1050	27918.6
5.	<i>Anogeissus latifolia</i>	Axle Wood	0.6	15	10.6	2.76	13.4	6.68	24.51	755	18503.7
6.	<i>Canarium strictum</i>	Black dammar	0.5	12	7.9	2.05	9.95	4.98	18.27	895	16347.7
7.	<i>Cassia siamea</i>	Siamese cassia	0.6	10	8.6	2.24	10.8	5.42	19.88	525	10439.1
8.	<i>Mecranga peltata</i>	Tiger's claw	0.8	12	10.5	2.73	13.2	6.62	24.28	1081	26243.5
9.	<i>Mangifera indica</i>	Mango	0.7	12	9.6	2.5	12.1	6.05	22.20	773	17157.6
10.	<i>Polyalthia longifolia</i>	False ashoka	0.6	15	8.2	2.13	10.3	5.17	18.96	1561	29595.3
Total										9,000	208067

At present, total 9000 number of trees belonging to different species are existing in the plant site, the total carbon sequestration potential is approximately 2,08,067 kg. The carbon sequestration per tree can be calculated as approximately 23.11 kg/year.



5.0 PROPOSED GREENBELT AND CARBON SEQUESTRATION DETAILS:

Existing Plant area is 15.77 Ha. Out this 5.0 ha (i.e., 31.71% project area) area has already been developed under greenbelt / plantation with density of @1800trees/ha. It is proposed to ramp-up greenbelt cover by additional plantation and via gap filling in 0.22 Ha. Thus, the total area under greenbelt will be 5.22 Ha. (33.10%) and density will be maintained as @2500trees/ha.

TABLE 8 PROPOSED ACTION PLAN FOR GREENBELT DEVELOPMENT / PLANTATION WITHIN PLANT AREA

S. No.	Year as per planning	Area Covered under greenbelt (Ha)	No. of Saplings (Nos.)	Carbon sequestration potential (Kg/year)
1.	Gap plantation	-	3499	80861.9
2.	1 st Year	0.074	185	4275.35
3.	2 nd Year	0.073	183	4229.13
4.	3 rd Year	0.073	183	4229.13
Sub Total		0.22	4050	93,595.5
Existing		5.0	9000	2,08,067
Total		5.22	13050	3,01,662.5

The carbon sequestration of proposed plantation is calculated based on above data i.e., 23.11 kg/year

Thus, in three years company will plant additional 4050 trees. Thus, the total area under greenbelt will be 5.22 Ha. (33.10%) and density will be maintained as @2500trees/ha. Therefore, including both the proposed plantation and existing greenbelt plantation in 5.22 ha. with a total of 13,050 saplings, which will contribute to an estimated total carbon sequestration potential of 3,01,662.5 kg/year. Which will further help to reduce the overall carbon footprint of the same.

6.0 ROADMAP TO REDUCE CARBON EMISSIONS DUE TO PROPOSED ENHANCEMENT PROJECT

The anticipated carbon emissions will be due to company facilities, company vehicles and purchased electricity.

To meet the targets taken by our country in COP - 26 / 27, following measures will be adopted by the unit are as follows:

- Power purchased from the State Electricity Board will be replaced gradually by Renewable Energy sources as per the availability and State Govt. policy.
- Diesel fleets will be gradually replaced as per the development of EV mobility for internal transportation.
- Company will work for Enhancing energy efficiency through equipment upgrades and the implementation of energy-saving technologies.
- Transitioning to renewable energy sources such as solar panels and exploring wind energy options.
- Implementing water recycling and reuse systems to minimize freshwater consumption.
- Prioritizing waste reduction efforts and ensuring proper disposal of waste materials.
- Conducting biodiversity assessments and implementing measures to protect sensitive habitats.



- Engaging with local communities and stakeholders to address concerns and collaborate on beneficial initiatives.
- Investing in research and development of cleaner beneficiation technologies.
- Ensuring compliance with environmental regulations and establishing robust monitoring and reporting mechanisms

7.0**GHG REDUCTION MEASURES**

Few of the things which could be done to reduce GHG emissions at plant are categorized under the following heads i.e., Behavioural Measure, Efficiency Measures, Fuel Replacement Measures and Long-term Measures.

A. GOVERNANCE

Company will establish Energy and carbon management community, who looks after governance for energy conservation, energy and carbon risk assessment, mitigation strategies and continual improvement in energy and carbon management. The committee plays a strategic role in all business decisions to ensure workplace safety, eliminating any potential damage to the environment, enhancing a commitment towards stakeholders, and maintaining our reputation etc.

B. BEHAVIORAL MEASURES

Behavioural changes are certain to be an important component in reducing greenhouse gas emissions (GHG) and combating climate change. There are few measures which will be circulated to employee through various engagement modes

- Switch off appliances – lights, fans, Air conditioners etc. when not in use.
- If leaving computer for a while, put it on stand-by. You'll be able to restart it quickly, and it'll take less energy than shutting it down and then restarting it.
- Awareness and training programs: Employee awareness trainings and workshops conducted to let everyone know that they're making changes to reduce your impact on the environment.
- Switch to public transportation, carpooling, biking, telecommuting and other innovative ways to save energy and reduce greenhouse gas emissions on your way to and from work.
- Annual maintenance of refrigerators, ACs, removal of blockages from air vents, replacing older light bulbs with energy-saving fluorescent bulbs.

C. EFFICIENCY MEASURES

Maintenance of air conditioners and similar equipment's will be done on a regular basis across corporate offices, units and guest houses. Outdated equipment's will be replaced with energy – efficient ones (Star rating).

D. INNOVATION

Innovative technologies will be implemented to automate and reduce manual errors in a process. This would improve collection of data and increase accuracy. This would help establish, a regular and up-to-date monitoring programme for air emissions (point and fugitive) arising from the operations. Company will continue to pursue improvements to air quality management, focusing on emissions of particulate matter, SO₂, NO_x etc emitted by operational activities

✕ LIGHTING MANAGEMENT

- Replace dated air conditioners and fans.
- Replacing existing lights with CFL and LED.
- Maximizing the use of natural day light, wherever possible.
- Use of sensor-based lighting controls at selected locations i.e., washrooms and passageways.

✕ MOTOR MANAGEMENT

- Avoid using motors at part loads (and avoid over-sized motors)
- Use of soft starters
- Replacement of old motors with high efficiency ones
- Sizing the motor to variable load
- Improving the input power quality
- Power factor correction by installing capacitors
- Speed control of induction motor
 - I. Multi-speed motors
 - II. Variable speed drives
 - III. New Direct current drives

✕ EMPLOYEE COMMUTE & BUSINESS TRAVEL

- Strategies for reduction
 - i. Increase % of employees using Mass Transit
 - ii. Encourage Carpooling/Bus Pooling
 - iii. Use of cleaner fuels for Buses and compliance as per latest standards.
 - iv. Onsite emission and tyre pressure tests.
 - v. Encourage the use of net meetings, Video Conferencing and Telepresence

✕ GREEN COMPUTING

- Conversion of building as green building for the optimum utilization of natural resources
- Optimum utilization of the IT infrastructure through Server Consolidation and virtualization
- Desktop level virtualization
- All CRT monitors to be replaced with LCD
- Green Procurement: All equipment to be energy star certified
- Green Data Centers
- Evaluating the performance of all our current data centers.
- New data centers as per the latest technology and HVAC systems.

E. FUEL SWITCH/REPLACEMENT MEASURES**SWITCHING TO CLEANER FUELS**

An assessment of materiality of emissions at the plant will be done before evaluating reduction measures. Diesel fleets will be gradually replaced as per the development of EV mobility for internal transportation.



REDUCING THE AMOUNT OF FUEL COMBUSTED

With the emissions generated by stationary combustion sources, reducing the amount of fuel that needs to be combusted even marginally can result in substantial reduction of CO₂e emissions. This can be achieved in the following ways:

- Implementing Diesel fleets which will be gradually replaced as per the development of EV mobility for internal transportation.
- Maximum Energy Utilization.

F. LONG TERM MEASURES

A new independent vertical to be created for overall Climate Change Management & Sustainability Framework so that all the activities under this could be monitored, implemented and tracked.

Investing in renewable i.e., solar, hydrogen, wind, bio – fuels. Separate assessment needs to be done for respective technologies for their technical and financial viability.

Replacing conventional techniques of energy generation with new clean technology options i.e., gas base power

Developing a low carbon strategy focusing on maximization of renewable energy use and ensuring optimum utilization of energy use during product manufacturing and distribution

G. RENEWABLE ENERGY

Company will gradually transition to renewable energy sources such as solar panels and explore wind energy options.

8.0 CONCLUSION:

As discussed, it is safe to say that the proposed 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. will not majorly contribute to GHG Emissions and does not have any major significant impact on the ecology of the area, as adequate preventive measures will be adopted to contain various pollutants within the permissible limits. Greenbelt development around the area would also be taken up as an effective pollution mitigation technique, as well as to control the pollutants released from the premises of M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited).



Photographs of Greening and Paving in the Plant area



Greening in the Plant area



Paving within the Plant area

FOMENTO

CERTIFIED TRUE COPY OF THE RESOLUTION PASSED IN THE MEETING OF THE BOARD OF DIRECTORS OF M/S. SOCIEDADE DE FOMENTO INDUSTRIAL PRIVATE LIMITED HELD ON 8TH JUNE, 2023 AT DIYA ENCLAVE, NEAR KRUSHI BHAVAN, LA CAMPALA, MIRAMAR, PANAJI, GOA 403001

The Chairman briefly solicited the Board to contemplate on the issue that a healthy and sustainable environment is important to our Board members, officers and employees of the Company to devote their best efforts and attention to managing the environmental resources in the organisation. The Chairman informed that in order to be consistent with the environmental commitment, the Company is implementing a Corporate Environment Policy based on the principles governing Corporate environmental management and compliance.

The Board after due deliberation on the matter decided to approve the adoption of the Corporate Environment Policy in its present form as tabled before the Board for their perusal. Thereafter the Board passed the following resolution:

"RESOLVED THAT the Board hereby accords its consent for adoption of the Corporate Environment Policy, draft whereof is tabled before the Board and initialled by the Chairman for identification, to govern the Board members, officers and employees in all activities in connection with the business of the Company.

RESOLVED FURTHER THAT the Corporate Environmental Policy be communicated on a regular basis to all employees, contractors, vendors, other associates of the Company.

RESOLVED FURTHER THAT any Director of the Company be and are hereby authorised to do all such acts, deeds and things as may be deemed necessary, expedient, appropriate or advisable to implement this resolution and any such prior actions are hereby ratified.

RESOLVED FURTHER THAT a copy of the foregoing resolution duly certified by any director or Mr. Shankar Narayan, Authorised Signatory of the Company be provided as required."

For and on behalf of
M/s. SOCIEDADE DE FOMENTO INDUSTRIAL PRIVATE LIMITED




Shankar Narayan
Authorised Representative

Date: 12/06/2023
Place: Panaji-Goa

CORPORATE ENVIRONMENT POLICY

ENVIRONMENT VISION

By thinking globally and acting locally the organization plays an active role in society to address emerging global environmental issues such as climate change, desertification, biodiversity, etc. while committed to economic development.

Sociedade De Fomento Industrial Private Limited (Company) is committed to deliver a clean, safe and healthy environment to its employees, contractors, visitors and communities and the Company shall operate its all units in an environment friendly and responsible manner.

To achieve its commitment, the Company shall endeavour to:

- Conform to applicable Legislative, Regulatory and Compliance Obligations.
- Conserve natural resources by improving operational efficiency, preventing pollution and sustainable use of such resources.
- Continual improvement in management system and performance.
- Ensure active participation of all employees, internal and external stakeholders towards protecting environment.
- Set corporate objectives and targets, and monitor our environmental performance.
- Impart training and awareness to all employees and stakeholders.
- Communicate our environmental commitment towards clean environment to the general public and encourage them and to support.
- Timely report of all non-compliance issues, evaluating causes of non-compliance, and implementing corrective actions to the management and take timely corrective actions.

Date: 12.06.2023
Place: Panaji Goa



For and on behalf of
M/s. Sociedade De Fomento Industrial
Private Limited


Narayana Prasad Valavala
Director

ग्रेटर फेरोमॅट

(सोसियादादे दि फोमेंतो इंडस्ट्रियल प्रायव्हेट लिमिटेडचा विभाग)

विला फ्लोरेस, दा सिल्वा इरास्मो कारवालहो स्ट्रीट,

पोस्ट बॉक्स 31, मडगाव गोवा 403601

ईमेल: fomento@fomento.com

सार्वजनिक सूचना

पर्यावरणीय मंजूरी

सामान्य जनतेच्या माहितीसाठी कळवण्यात येत आहे की, पर्यावरण, वन आणि हवामान बदल मंत्रालय, IA विभाग, भारत सरकार यांनी ग्रेटर फेरोमॅट (सोसियादादे दि फोमेंतो इंडस्ट्रियल प्रायव्हेट लिमिटेडचा विभाग) च्या दक्षिण गोवा जिल्ह्यातील सांगे तालुक्यातील सांतोना गावात स्थित आयरन ओर वेट बेनिफिकेशन प्लांटची क्षमता 0.64 मिलियन TPA (0.914 मिलियन TPA थ्रूपुट) वरून 0.674 मिलियन TPA (1.0 मिलियन TPA थ्रूपुट) पर्यंत करण्यास पत्र क्रमांक IA-J-11011/434/2023-IA-II(IND-I), दिनांक 01/03/2025 द्वारे पर्यावरणीय मंजूरी दिली आहे. सदर पर्यावरणीय मंजूरी EIA अधिसूचना, 2006 आणि त्यानंतरचा सुधारणांच्या तरतुदीनुसार दिली आहे.

सदर पर्यावरणविषयक मंजूरी पत्राची प्रत त्यासह पर्यावरणाच्या अटी व सुरक्षिततेची माहिती पर्यावरण, वन व हवामान बदल मंत्रालयाच्या (MoEF&CC) च्या, PARIVESH www.parivesh.nic.in या वेबसाईटवर पाहता येईल.

दिनांक: 04/03/2025

ग्रेटर फेरोमॅट

(सोसियादादे दि फोमेंतो इंडस्ट्रियल प्रायव्हेट लिमिटेडचा विभाग)

ब्रिजेश देसाई

अधिकृत प्रतिनिधी

ग्रेटर फेरोमॅट (सोसिएदाद दे फोमेंतो इण्डस्ट्रियल प्रायव्हेट लिमिटेडाचो प्रभार)

विला फ्लोरेस, दा सिल्वा इरास्मो कारवाल्हो स्ट्रीट,
पोस्ट बॉक्स मडगांव गोंय 403601

भौशीक सुचोवणी पर्यावरणीय मंजूरी

भारत सरकाराच्या पर्यावरण, रान आनी हवामान, बदल मंत्रालय IA विभागान, मेसर्स ग्रेटर फेरोमॅट (सोसिएदाद दे फोमेंतो इण्डस्ट्रियल प्रायव्हेट लिमिटेडाचो प्रभाग) च्या दक्षीण गोंय सांगें तालुक्यांतल्या सांतोणें गांवांत, लोह मीन जल अभिशोधन प्लांटाच्या आधुनिकीकरणा वरवीं 0.64 मिलियन टीपीए (0.914 मिलियन टीपीए प्रक्रियांतर्गत) वयल्यान 0.674 मिलियन टीपीए (1.0 मिलियन टीपीए प्रक्रियांतर्गत) मेरेन वृद्धी करूंक पर्यावरण मंजूरी दिल्या, तांचे पत्र क्र. IA-J-11011/434/2023-IA- II(IND-I) तारीख 01/03/2025 दिसा ईआयए अधिसुचोवणे, 2006 प्रमाणें आनी तातूंत केल्ले दुरुस्ती प्रमाण.

पर्यावरणीय अटी आनी सुरक्षा हांचे वांगडा पर्यावरण मंजूरी पत्राची प्रत MoEF&CC (PARIVESH)
www.parivesh.nic.in च्या संकेतथळार उपलब्ध आसा.

तारीख: 04/03/2025

ग्रेटर फेरोमॅट (सोसिएदाद दे फोमेंतो इण्डस्ट्रियल
प्रायव्हेट लिमिटेडाचो प्रभार)

ब्रिजेश देसाई
अधिकृत प्रतिनिधी

Greater Ferromet
(Division of Sociedade De Fomento Industrial Private Limited)
Vila Flores, da Silva Erasmo Carvalho Street,
Post Box 31, Margao Goa 403601
Email: Fomento@fomento.com

PUBLIC NOTICE
ENVIRONMENTAL CLEARANCE

It is hereby informed that the Ministry of Environment, Forest and Climate, Change, IA Division, Government of India, has accorded Environmental Clearance to the project "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 Santoria, Sanguem Taluka, South Goa District, Goa of M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited)" vide its File no: IA-J-11011/434/2023-IA-II(IND-I) dated 01/03/2025 as per the provisions of EIA Notification 2006 and its subsequent amendments thereon.

Copy of the Environmental Clearance letter along with the environmental conditions and safeguards is available on the website of MoEF&CC (PARIVESH), **www.parivesh.nic.in**

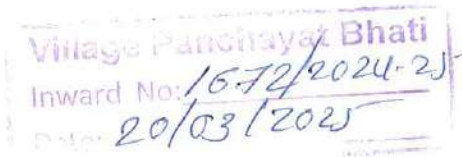
Date: 04/03/2025

SD/-
For and on behalf of
Greater Ferromet
(Division of Sociedade De Fomento Industrial Private Limited)
Brijesh Dessai
Authorised Representative

FOMENTO

To,
The Following Authorities

Date: 17/03/2025

1	The Sarpanch Village Panchayat Bhati , Bhati Sanguem-Goa	
2	The Sarpanch Village Panchayat Kalay, kalay Sanguem- Goa	
3	The Chairperson Sanguem Municipal Council, Sanguem, Goa	
4	The Sarpanch Village Panchayat Uguem, Uguem-Goa	
5	The Sarpanch Village Panchayat Colem Bazarwada Collem, Dharbandora Goa	
6	The Sarpanch Village Panchayat Dharbandora Tamsodo- Dharbandora Goa	



7	The Sarpanch Village Panchayat Kirlapal- Dabhal Wagon,,Dharbandora, Goa	RECEIVED ON <u>20/03/2025</u> <u>[Signature]</u> V. P. KIRLAPAL DABAL DHARBANDORA - GOA
8	The Sarpanch Village Panchayat Mollem Mollem, Dharbandora Goa	Received On <u>20/03/2025</u> <u>[Signature]</u> For Village Panchayat Molem
9	The Sarpanch Village Panchayat Sancordem Sancordem Goa	<u>20/03/2025</u> <u>[Signature]</u> VILLAGE PANCHAYAT SANCORDEM
10	The Chairperson Curchorem Municipal Council, Cacora Vodlemol Cacora Goa	<u>20/3/25</u> <u>[Signature]</u> Curchorem Cacora Municipal Council कुडचडे, काकोडा नगरपालिका Curchorem - Goa कुडचडे - गोवा
11	The Sarpanch Village Panchayat Assolda, Quepem - Goa	RECEIVED <u>[Signature]</u> dt. 20-3-2025 V.P. ASSOLDA
12	The Sarpanch Village Panchayat Xeldem, Tilamol, Quepem - Goa	<u>[Signature]</u> <u>20/03/2025</u> RECEIVED V. P. XELDEM



13	The Sarpanch Village Panchayat Panchawadi Vizar, Panchawadi, Ponda Goa	Office of V. P. Panchawat C. P. Clerk / Peon <i>[Signature]</i> Dated <u>20/03/2025</u> Inward No.: <u>959</u>
14	The Sarpanch Village Panchayat Shiroda Shiroda Ponda Goa	Received On <u>20/03/2025</u> Entry Clerk <i>[Signature]</i> Village Panchayat Shiroda
15	The Sarpanch Village Panchayat Betora- Nirancal Vantimol, Betora, Ponda Goa	<i>[Stamp: B. P. BETORA NIRANCAL, 20/03/2025]</i>
16	The Sarpanch Village Panchayat Chandor- Cavorim Near Chandor Church Chandor Goa	<i>[Stamp: VILLAGE PANCHAYAT CHANDOR, Received 20/03/2025]</i>
17	The Sarpanch Village Panchayat Guirdolim Molla, Guirdolim Goa	RECEIVED <i>[Signature]</i> 20/3/2025 INWARD CLERK V.P. GUIRDOLIM SALCETE-GOA
18	The Sarpanch Village Panchayat Macasana Tumbhabhat, Macasana Goa	<i>[Stamp: OFFICE OF THE VILLAGE PANCHAYAT, MACASANA, Received on 20/03/2025]</i>



Subject : Submission of copy of Environmental Clearance with respect to 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 of M/s Greater Ferromet (Division Of Sociedade De Fomento Industrial Private Limited), located at Village Santona, Taluka Sanguem, District South Goa, Goa.

Reference:-Environmental Clearance vide file no. IA-J-11011/434/2023-IA-II(IND-I) dated 01/03/2025 granted to M/s Greater Ferromet (Division Of Sociedade De Fomento Industrial Private Limited).

Sir,

We are pleased to inform you that Ministry of Environment, Forest and Climate Change, New Delhi has granted Environmental Clearance for 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 of M/s Greater Ferromet (Division Of Sociedade De Fomento Industrial Private Limited) located at Village Santona, Taluka Sanguem, District South Goa, Goa.

Condition No. 10.2 under heading "10. Miscellaneous" of the Environmental Clearance dated 01/03/2025, stipulated as under

"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."

In compliance to condition No.10.2 under heading "10. Miscellaneous" as mentioned above we are submitting herewith a copy of Environmental Clearance for your information and needful action.

Thanking You,
Yours faithfully,



Brijesh Dessai
(Authorized Representative)



Encl: As above

To,
The Member Secretary
Goa State Pollution Control Board
Near Pilerne Industrial Estate,
Opp. Saligao Seminary,
Saligao, Bardez, Goa

Date: 17/03/2025

26/03 has
Goa State Pollution Control Board
Opp. Saligao Seminary
Saligao Goa 403 511

Subject : Submission of copy of Environmental Clearance with respect to 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 of M/s Greater Ferromet (Division Of Sociedade De Fomento Industrial Private Limited), located at Village Santona, Taluka Sanguem, District South Goa, Goa.

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Yours faithfully,



Brijesh Dessai
(Authorized Representative)



Encl: As above

To,

Date: 17/03/2025

- 1 The Director,
Directorate of Mines and Geology,
Government of Goa,
Ground Floor of Institute Menezes Braganza,
Panaji, Goa
- 2 The Director,
Directorate of Industries, Trade and Commerce
Udyog Bhavan, Ground Floor,
Panaji-Goa, Goa

[Handwritten Signature]
20/03/2025
Receiver's Signature
Directorate of Industries, Trade & Commerce
Government of Goa

[Handwritten Signature]
20/3/2025
Received (sd
Directorate of Mines & Geology
Government of Goa

Subject : Submission of copy of Environmental Clearance with respect to 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 of M/s Greater Ferromet (Division Of Sociedade De Fomento Industrial Private Limited), located at Village Santona, Taluka Sanguem, District South Goa, Goa.

Reference:-Environmental Clearance vide file no. IA-J-11011/434/2023-IA-II(IND-I) dated 01/03/2025 granted to M/s Greater Ferromet (Division Of Sociedade De Fomento Industrial Private Limited).

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[Handwritten Signature]

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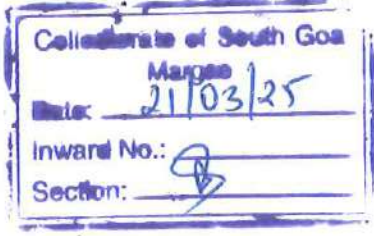
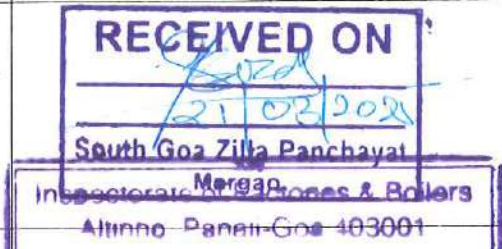
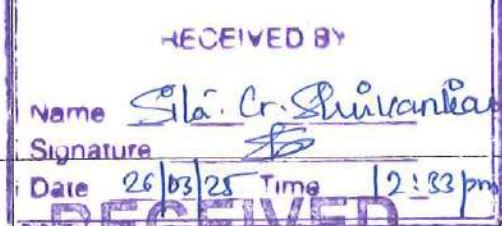
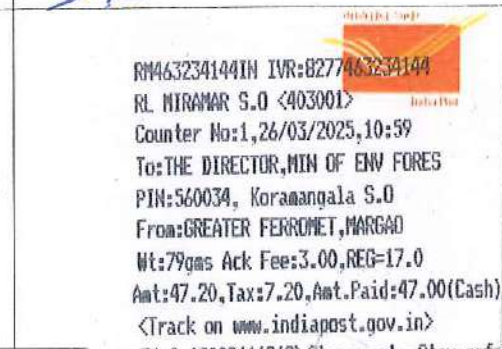

Brijesh Dessai
(Authorized Representative)



Encl: As above

To,
The Following Authorities

Date: 17/03/2025

1	The Collector & District Magistrate, South Goa District, Matanhy Saldanha Administrative Complex, Near KTC Bus Stand, Margao, Goa	
2	The Chairperson, South Goa Zilla Panchayat Office, Old Collectorate Building, Margao, Goa	
3	The Chief Inspector, Inspectorate of Factories and Boilers Altinho, Panaji, Goa	
4	The Sarpanch Village Panchayat Sanvordem Baagwada Sanvordem Goa	
5	The Director, Ministry of Environment, Forest & Climate Change, Regional Office (Southern zone) 4th Floor, E&F Wings, Kendriya Sadan, 17th Main Road, 2nd Block, Koramangala, Bangalore - 560034, Karnataka.	

Subject : Submission of copy of Environmental Clearance with respect to 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 of M/s Greater Ferromet (Division Of Sociedade De Fomento Industrial Private Limited), located at Village Santona, Taluka Sanguem, District South Goa, Goa.



Reference:-Environmental Clearance vide file no. IA-J-11011/434/2023-IA-II(IND-I) dated 01/03/2025 granted to M/s Greater Ferromet (Division Of Sociedade De Fomento Industrial Private Limited).

Sir,

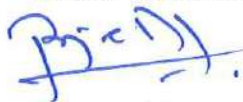
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Condition No. 10.2 under heading "10. Miscellaneous" of the Environmental Clearance dated 01/03/2025, stipulated as under

"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."

In compliance to condition No.10.2 under heading "10. Miscellaneous" as mentioned above we are submitting herewith a copy of Environmental Clearance for your information and needful action.

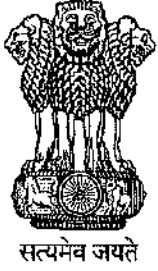
Thanking You,
Yours faithfully,



Brijesh Dessai
(Authorized Representative)



Encl: As above



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
(vii) Name of Project	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).
(viii) Name of Company/Organization	SOCIEDADE DE FOMENTO INDUSTRIAL PRIVATE LIMITED
(ix) Location of Project (District, State)	SOUTH GOA, GOA

(x) Issuing Authority

MoEF&CC

(xi) Applicability of General Conditions as per
EIA Notification, 2006

Yes

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 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. 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 it 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" Alinho 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 49 Schedule-I Species 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 Asstt. 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 Ferronmet (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 I

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 m ³ /day, out of which 1180 m ³ /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												
		<table border="1"> <tr> <td>Ugem River</td><td>8.0</td><td>South South East</td></tr> <tr> <td>Zuari River</td><td>5.4</td><td>West South West</td></tr> <tr> <td>Gulori River</td><td>9.5</td><td>South</td></tr> <tr> <td>Paroda River</td><td>9.5</td><td>West South West</td></tr> </table>	Ugem River	8.0	South South East	Zuari River	5.4	West South West	Gulori River	9.5	South	Paroda River	9.5	West South West
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Zuari River	5.4	West South West												
Gulori River	9.5	South												
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 for Education	• 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. 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
			m, Morkani			
	Support in sports activities to local youths	- Distribution of sports material and kits - Organizing cricket/volleyball tournaments	Santona Village, Bandoli Village, Ambeud ak	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	Devnam ol 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, Ambeud ak	1.0	1.0	1.0
		Infrastructure for Sub-center	Cormone m Village, Santona Village	0.5	0.5	0.5
C	Rural Infrastructure	Solar Street lights - 10 Nos.	Bandoli Village, Savargal, Cormone m 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. N o.	Concerns raised during the Public Hearing	Physical Activity to be Done	Areas/L ocality	Action Plan Budget (Rs. In Lakh)		
				1st Ye ar	2nd Ye ar	3rd Ye ar
	Sub- Total			6.0	6.0	6.0
	Grand Total			19.0	19.0	19.0

Signature Not Verified

Digitally Signed by : Shri Dinesh Raniwal
Member Secretary, MoEFCC (EC)

Date: 01/03/2025

Photographs showing LED display board at the entrance of the project



GOA STATE POLLUTION CONTROL BOARD

FORM V

(See Rule 14)

Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.

PART A

- (i) Name and address of the owner/ occupier of the industry operation or process : Partha S. Banerjee
- (ii) Industry category Primary-(STC Code) : RED, Mining and ore beneficiation
Secondary-(STC Code)
- (iii) Production capacity : Production at Greater Ferromet Wet Beneficiation Plant for the year 2024-25 is Nil Tonnes

Production Name	Production Capacity	Production Unit
Beneficiation of Iron Ore Concentrate(200TPH feed)	53333	Metric Tonnes/Month

- (iv) Year of establishment : 1986
- (v) Date of the last environment statement submitted : 29/09/2024

PART B

1. Water consumption m³/ d

Process : 0

Cooling : 0

Domestic : 0

Name of products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
Iron Ore Concentrates	0	0

2. Raw material consumption

Name of raw materials	Name of products	Consumption of raw material per unit	
		During the previous financial year	During the current financial year
Iron Ore (ROM)	Iron Ore Concentrates	0	0

*Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw material used.

PART C

Pollution discharged to environment/ unit of output.

Pollution	Quantity of pollutants discharged(mass/day)	Concentration of pollutants in discharges(mass/volume)	Percentage of variation from prescribed standards with reasons
Water			
Water	Surface discharge water monitoring	pH- min. 6.78 ~ max. 7.01; TSS – min. 33.4 mg/L ~ max. 35 mg/L; Oil & grease - BDL; Fe - min. 0.32mg/L ~ Max - 0.4; Mn - BDL	
Air			
Air	Ambient Air quality monitoring (Core Zone)	PM 10 – min 53.9 µg/m ³ ~ max 65.3µg/m ³ ; PM 2.5 - Min 24.8µ g/m ³ ~ Max 34.4µg/m ³ ; SO ₂ – Min 5.3 µg/m ³ ~ Max 8.4 µg/m ³ ; NO ₂ – Min13.2 µg/m ³ ~ Max 18.1µg/m ³	Nil
Air	Ambient Air quality monitoring (Buffer Zone)	PM 10 – min. 34.2µg/m ³ ~ max. 69.3 µg/m ³ ; PM 2.5 – Min. 18.3 µg/m ³ ~ Max. 37.5 µg/m ³ ; SO ₂ – Min 4.2 µg/m ³ ~ max. 15.2 µg/m ³ ; NO ₂ – Min. 7.9 µg/m ³ ~ Max. 27.3 µg/m ³	Nil

Name of Pollutants : .

PART D

Hazardous Wastes

(as specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
(a) From process	Nil	Nil
(b) From pollution control facilities	Nil	Nil

PART E

Solid Wastes

	Total Quantity	
	During the previous financial year	During the current financial year
(a) From process	Nil	Nil
(b) From pollution control facility	Nil	Nil

(c)(1) Quantity recycled or re-utilised within the unit	Nil	Nil
(2) Sold	Nil	Nil
(3) Disposed	Nil	Nil

PART F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes -

For the year 2024-25, used oil (Hazardous Waste) was not generated as the plant was not operated.

General procedure followed is to collect used oil during the operation and store in leak proof sealed barrel and the same is disposed to an authorized recycler.

PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production -

During the year 2024-25, the plant was not operated.

During operation, regular monitoring of ambient air quality is taken up to evaluate the efficiency of the pollution control systems and control measures on the overall emissions in ambient air.

Adequate measures for control of fugitive emissions is also undertaken.

Fugitive dust emissions are controlled by regular water sprinkling on screening area, haul roads, loading, unloading points & transportation of minerals, etc. For the dust suppression two water tankers having 10KL capacity are engaged and such provision are properly maintained on regular basis . .

PART H

Additional measures/ investment proposal for environmental protection abatement of pollution, prevention of pollution -

During the year 2024-25, the plant was not operated.

Adequate measures are taken to keep the noise level below 85db(A) in the work environment .

PART I

Any other particulars for improving the quality of the environment -

To improve the quality of Environment all the measures to abate environmental pollution mentioned in Part G of this Environment Statement is carried out.

The above mentioned environmental protective measures are always updated with the latest available technology .

Remarks : .