

Ref No. VAB/ENV/2025-26/04

Date: 30/05/2024

To,
The Director,
Ministry of Environment and Forest,
Regional Office (Southern Zone), Kendriya Sadan,
4th Floor, 17th Main Road, 2nd Block, Koramangala,
Bengaluru, Karnataka- 560034

Subject:

Submission of 1st six-monthly compliance report to the conditions of Environment Clearance [IA-J-11011/946/2007-IA-II(IND-I)] for M/s Vedanta Limited (Formerly Sesa Goa Ltd.)

Reference:

1. IA-J-11011/946/2007-IA-II(IND-I) dated 18/10/2024

Respected Sir,

With respect to above reference, please find enclosed herewith: 1st six-monthly compliance report to Environment Clearance File No: IA-J-11011/946/2007-IA-II(IND-I) dated 18/10/2024 for the period **October^s 2024 to March^s 2025** for M/s Vedanta Limited (Formerly Sesa Goa Ltd.).

Project Name: Proposed expansion in production capacity of Pig Iron Plant from 1 MTPA to 1.2 MTPA by increasing the production capacity of existing BF3 (from 0.65 MTPA to 0.85 MTPA) and sinter plant (from 1 MTPA to 1.2 MTPA) through debottlenecking and installation of DI pipe Plant from 0.3 MTPA to 0.36 MTPA under clause 7(ii) of EIA Notification 2006 amended from time to time At villages: Amona and Navelim, Taluka: Bicholim, District: North Goa (Goa). The annexures are enclosed along with the compliance status report.

Thanking you.

Yours faithfully

For Vedanta Limited- Value Added Business


Suresh Sardesai
CEO- Value Added Business

Cc: (i) Member Secretary of GSPCB and (ii) Member Secretary of CPCB (SZO)

VEDANTA LIMITED

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CIN: L1229MH1200PLC120194

Compliance Report to
Environmental Clearance File No: IA-J-11011/946/2007-IA.II(I)
(October'2024-March'25)

Project Name: Proposed expansion in production capacity of Pig Iron Plant from 1 MTPA to 1.2 MTPA by increasing the production capacity of existing BF3 (from 0.65 MTPA to 0.85 MTPA) and sinter plant (from 1 MTPA to 1.2 MTPA) through debottlenecking and Installation of DI pipe Plant from 0.3 MTPA to 0.36 MTPA under clause 7(ii) of EIA Notification 2006 amended from time to time At villages: Amona and Navelim, Taluka: Bicholim, District: North Goa (Goa)..

Sr. no.	Conditions of EC	Compliance status
A. Specific Conditions		
i.	<p>This Environmental clearance is granted subject to 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.</p> <p>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.</p>	<p>Noted.</p> <p>Complied. All the Environmental Protection Measures are compiled and as a part of the recommendations made in EIA/EMP Installation of additional ESP in Sinter Plant and Additional 2nos of Silos to BF3 Gas cleaning plant is under progress</p>
ii.	<p>The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.</p>	<p>Complied. As a part of carbon sequestration, every year plantation is carried out in and around the plant premises during monsoons. FY 24-25 1500 Nos of plantation was done.</p> <p>Annexure I-Plantation photos</p>
iii.	<p>As reported, Amona is at 0.3 km in WNW direction, Navelim-Maina at a distance of 0.4 km in SE direction of project site along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on</p>	<p>Complied.</p> <p>As a part of mitigation measures there are windshields along the plant boundaries, windshields with top sprinklers, thick green belt developed, and gap filling done every year in monsoons. As a part of the environmental monitoring programme</p>

	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.	manual AAQM monitoring is carried out weekly twice in Amona, Maina and Navelim village Annexure II : AAQM village monitoring reports
iv.	Mandovi river is reported adjacent to plant site in SW direction, Cudnem River at 0.5 km in NNW direction of project site along with other water bodies within study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters: along with Soil conservation scheme and multiple Erosion control measures shall be implemented. The ground water in the vicinity of the rivers must be monitored periodically and reported to the IRO.	Complied Proper drainage systems are available to protect natural drainage and its flow. Excavated Loose soil is dumped separately and covered with geotextile and plantation Pre and post monsoon ground water monitoring is done at Amona, Navelim and Maina village. Annexure III: Dumps covered with geotextile and Pre and post monsoon ground water monitoring reports
v.	The water requirement of 13896 KLD which shall be sourced from Bandhara Valvonti River for fresh water, saline water from Mandovi river, rainwater from harvested pits and PWD water for domestic consumption. PP shall obtain necessary permission from the Competent Authority. No ground water abstraction is permitted.	Complied. Water withdrawal permissions are available. No ground water abstraction is done at the plant Annexure IV: Water withdrawal permissions
vi.	PP shall strictly implement the mitigation measures to minimise the pollution and undertake continuous monitoring of pollutants.	Complied. As a part of mitigation measures we have Bag house systems, Gas cleaning plant, ESP's, Windshields along the plant boundaries, Rain guns, fog cannons, Enclosed conveyors, Tarpaulin tying on trucks top and material heaps, Speed limit to vehicles to avoid fugitive dust during movement, Road sweeping machine, Closed raw material storage shed, thick green belt is developed, 4nos of CAAQMS stations and stack analyzers are installed and data is continuously getting communicated to GSPCB and CPCB Annexure V: Mitigation measures
vii.	Three tier Green Belt shall be maintained in at least 33% of the project area along the project site 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. a. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with a width of 25 meters with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for	Complied. Green Belt has been developed within 54 hectares(33.5% of total land) with a density of 2,500 plants per hectare. Further strengthening is done by gap filling every year in monsoons. Green belt is also developed both towards Amona, Navelim village. In addition, wind shields have been installed along the project boundary towards these villages. Annexure VI: Green belt developed along the boundaries and windshield

	air pollution & noise levels towards sensitive areas nearby project site such as Amona Village and Navelim village.	
	b. PP shall practice geotagging of plant for better monitoring. PP shall also try to develop additional plantation in the nearby school in consultation with the school administration. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	Being complied. Geotagging will be done and completed for plants in green belt area of which procedure is in progress. Plantation will be taken up in schools in vicinity of plants during upcoming monsoons i.e FY 25-26
viii.	The PP is advised to undertake plantation in the earmarked 33% greenbelt area 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) .	Plantation will be taken up under 'Ek Ped Maa Ke Naam' Campaign FY 25-26 in the month June'25 and the details will be uploaded on MeriLiFE portal at (https://merilife.nic.in).Plantation for FY 24-25 1500nos of plantation was carried out inside plant premises, school and village area
ix.	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 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC. PP shall strictly comply with the revised timeline for completion of activities envisaged in the action plan of the earlier PH.	Complied. The proposed activities under the CER are under implementation. The expert agencies/ NGO partners are onboard for the execution Annexure VII: Snapshot of the purchase order issued.
x.	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.	Complied. The holistic development of the nearby villages is going on through numerous CSR interventions in the area of Health, Education, Infra. Development, Agri., Water & Sanitation and sustainable livelihood opportunities. Project Gramnirman is already under implementation in nearby villages. MHU vehicles is operational in all nearby villages through Medihelp foundation.
xi.	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.	Complied Approved wildlife management plan for 5 years received from the State Forest Department, Govt. of Goa, the implementation of the same is in progress. Communications from the Goa Forest department are attached in annexure.As a part of the plan total 67.7lakhs is given to forest department which includes 25 nos. of trap cameras, Sponsorships towards Bird Festival and Wildlife Week celebration, financial support for establishing water holes in wildlife buffer area and Rescue van along with rescue cage was handed over to forest department. Annexure VIII: Activities carried out as per approved wildlife management plan
xii.	Top Recovery Turbine shall be installed in BF3. BF 1 & 2 shall be equipped with stove waste recovery, cast house and stock house ventilation system	Being Complied. Top Recovery Turbine installation shall be taken up during revamping.

	and slag granulation facility. Dry Gas Cleaning Plant shall be installed during next revamping of BF1 and BF2.	Blast Furnace 1 and Blast Furnace 2 are equipped with stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility. Dry Gas Cleaning Plant installation shall be taken up during next revamping.
xiii.	AAQ at Mosque and Siddhartha Caves archaeological sites shall be monitored once in a month as per the CPCB norms.	Complied. Ambient air monitoring is being done once a month at Archeological sites i.e the Mosque and Siddhartha Caves at Tar Surla and the reports are submitted monthly to Goa State Pollution Control Board. Annexure IX: Archaeological sites monitoring reports
xiv.	Parking area for trucks/dumpers shall be provided within the plant. No truck/dumper shall be parked outside the plant premises	Complied. Parking area for trucks/dumpers is provided inside the plant premises.
xv.	Project proponent shall conserve wetlands located in the vicinity of the project site (Amona – 0.3km in Northern direction and Navelim – 0.6 km in Northern direction) by developing green belt development all along the boundary of the wet land.	Complied. During last monsoons plantation of trees was conducted in the collaboration of Village Panchayat Amona and temple committee of Navelim. The plantation in the vicinity and along the plant boundary wall is under execution.
xvi.	Water being used for cooling purposes in Waste Heat Recovery Power Plant (WHRPP) is the saline water drawn from Mandovi river (backwater). The blow down of cooling towers shall be discharged back to the saline backwaters as per the approval of the GSPCB. Project proponent shall periodically monitor the riverine water quality and report shall be submitted along with the sixmonthly compliance report to the concerned Regional Office of the MoEF&CC.	Complied. Riverine water quality is monitored monthly, and reports are submitted to GSPCB. Annexure X: Riverine water quality reports
xvii.	Secondary emission generated during charging, tapping of metal, slag tapping may be controlled by providing canopy hoods at proper elevation connected to air pollution control device without interfering with the production process.	Complied. The Dust Extraction Systems (DES) have been provided for coal charging and baghouses with hoods have been provided for tapping of metal.
xviii	Additional Filter beds, arrester wall shall be provided along the storm water drainage for settlement of suspended particles and to prevent siltation.	Complied. Additional filter beds and arrester walls are provided in the storm drains and these storm drains are desilted every year before monsoon.
xix.	The recommendations contained in the storm water management plan shall be strictly adhered with. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	Complied. The storm water management plan is prepared and implemented. Geo-blanketing of loose soil dump at project site is done as a part of the management plan. Desilting of all the settling ponds and drains is done every year before monsoons. Annexure XI: Dumps covered with geotextile and desilted settling ponds drains
xx	CO sensors shall be installed in all units which generate CO gas.	Complied.CO gas sensors are installed at all units generating CO gas. There are in total 106nos of portable CO monitors and 106nos of online CO monitors.

xxi	In pursuance to the IA(CMD) communication dated 15.07.2024, the General Condition (v) on energy conservation measures, and General Condition (i) on waste management, as stipulated in EC dated 24.01.2022 shall be deemed dropped for future compliance	Noted.
B. General conditions		
I	Statutory compliance:	
i.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Noted
ii.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted
II	Air quality monitoring and preservation:	
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 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. (Already being addressed through previous EC conditions.)	Complied. Continuous Emission Monitoring System (CEMS) at the process stacks and CAAQMS have been installed and are connected to Goa State Pollution Control Board (GSPCB) and Central Pollution Control Board (CPCB). Calibration of CEMS and CAAQMS is done as per schedule Annexure XII: Calibration reports
ii.	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within	Complied.4nos of CAAQMS have been installed and data is continuously getting communicated to GSPCB and CPCB.

	and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.(already being addressed through previous EC conditions.)	
iii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied. We are monitoring fugitive emissions at our loading/unloading areas, raw material storage areas and internal roads quarterly through MOEFCC approved laboratory Annexure XIII: Fugitive dust emission reports
iv.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	Complied. All process stacks have been provided with sampling facility. Quenching towers are not a source of process emissions and are provided with grit arresters.
v.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Complied. Baghouses, Electrostatic Precipitators (ESPs),Dust Extracting Systems (DEs), rain guns, fog cannons, windshields, road sweeping machines, water tankers, dry fog systems are present to control air pollution.
vi.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Complied. Differential pressure measurement is available across bags to detect leakage. Compressed Air puffing arrangement is available for mechanized cleaning.
vii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Complied. For road cleaning, road sweeping machines are deployed. The shop floor and roofs are cleaned regularly
viii.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Complied. Raw material carrying trucks are covered with tarpaulin during transportation. All conveyors are closed types to avoid spillages and dust generation.
ix.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	Complied. All the iron ore fines, coal and coke fines, lime fines and such other fines are reused in the sinter plant to produce sinter.
x.	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.	Complied. Baghouse systems with hoods are provided to all blast furnaces
xi.	Wind shelter fence and chemical spraying shall be provided on the raw material stockpiles.	Complied. Windshields have been provided at the boundary of the plant. There are rain guns provided in the raw material yard for sprinkling of water to prevent generation of fugitive dust.

xii.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Complied. Tunnels are not present at our plant. For motor houses and oil storage rooms, proper ventilation system has been provided.
xiii.	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.	Complied. Baghouses, Electrostatic Precipitators (ESPs), Dust Extracting Systems (DESSs), rain guns, fog cannons, windshields, road sweeping machines, water tankers and dry fog systems are present to control air pollution.
xiv	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Enough 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.	Complied. Wet scrubbers, baghouse systems, ESP's, EV vehicles are used for internal employee transportation. Fog cannon mist cannons, rain guns are available in raw material yards and dispatch area. Road spraying through tankers and Road sweeping machine with sprinklers is present and deployed for road cleaning and to arrest suspended dust in atmosphere.
xv	Bag filters shall be cleaned regularly, and efficiency of bag filter system shall be monitored at regular intervals.	Complied. Compressed Air puffing arrangements are available for mechanized cleaning. Differential pressure measurement is available across bags to detect leakage. Efficiency monitoring is conducted annually, and reports are submitted to GSPCB and CPCB.
xvi	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.	Complied. Rain guns and fog cannons are available in raw material yards and dispatch areas. Additionally, road sweeping machines are available for control of fugitive dust emissions
xvii	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.	Complied. Adequate measures like Gas cleaning system, bag houses are available to maintain emissions from stack below 30mg/Nm ³ . Continuous Emission Monitoring System (CEMS) have been installed at the process stacks and are connected to Goa State Pollution Control Board (GSPCB) and Central Pollution Control Board (CPCB). Calibration of CEMS is done regularly
xviii	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	Complied. Fog cannons/mist sprinklers are available at raw material storage area. All raw material carrying vehicles are covered with tarpaulin. Wheel wash systems are installed at the exit of raw material gate.
III	Air Quality Monitoring And Preservation In Case Of Ferro Alloy Plants	

i.	The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.	Complied. Furnace is closed with hydraulic operated doors
ii.	Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m ³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants.	Complied. Personal and area exposures for silica quartz dust are done in the process plants. Annexure XIV: Silica/quartz Reports attached.
iii.	No Ferro-chrome production shall be carried out without prior Environmental clearance from MOEF&CC.	Noted and complied.
iv.	Dry quenching (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot coke-(Any further expansion in the coke oven batteries of capacities 0.3MTPA and 0.322MTPA shall not be undertaken until CDQ system is put in place. Further, it also suggested PP to prepare a techno-economically feasible plan for switching over to CDQ, and submit the same to concerned RO MoEFCC clearly indicating the timeline.)	Not applicable. <ul style="list-style-type: none"> • Existing two coke oven batteries were built up in the year 1994 and 2013 with capacity 3,22,000 Tons/annum and 3,00,000 tons/annum respectively. The said coke ovens are of non-recovery type coke ovens wherein other material like tar etc are not recovered. The coke ovens are of horizontal assembly of ovens which works with negative pressure. • For installing dry quenching plant coke oven battery capacity alone should be at least 5,00,000Tons/annum or more in single row. In our case individual coke oven batteries capacity is far less than 5,00,000Tons/annum. This gives 2,50,000 Tons/annum which is insufficient feed for the dry quenching plant • There are two technologies which are available for coke oven namely chemical recovery and waste heat recovery. In case of chemical recovery lots of emission issues persist hence dry quenching is feasible. However, for non recovery type of coke ovens are operated with negative pressure with mandatory waste heat recovery. In case of our existing non recovery type coke ovens the waste heat recovery is at the rate of 500 /tons of coke which is higher than others • Dry quenching plant is more feasible in vertical coke ovens. In case of Horizontal coke batteries, the civil structure for quenching tunnel shall be built at particular height which is quite difficult as we have to dug deep below the ground level for this structure. As these existing coke oven batteries are 30 years and 10 years old respectively the space around these

		<p>coke oven batteries are already occupied by different structures and currently no space available to install any plant around the coke ovens.</p> <ul style="list-style-type: none"> • There is existing wet quenching towers provided with grid arrestor and spray systems
v.	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries(Chain conveyors, land based industrial vacuum cleaning facility). Land-based APC system shall be installed to control coke pushing emissions.	Complied. Wharf of coke is enclosed with parapet wall on two sides. Feed end is connected to settling pond whereas discharge end on conveyor feeding to screening plant. Coke from wharf is directly taken on conveyor lined with side skirting. Hoods lined with pyro-block modules are provided on hot coke car for control of emissions.
vi.	Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	Not applicable. Our coke oven batteries are non-recovery type working under negative pressure, hence, there is no Coke Oven Flue Gas (COFG) leakages from coke oven process.
vii.	Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	Not applicable as our coke oven batteries are non-recovery type
viii.	The coke oven gas shall be subjected to desulphurization if the sulphur content in the coal exceeds 1%.	Complied. Sulphur content in blended coal is within limits
ix.	Online stack monitoring system for IF and RHF shall be installed, and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six monthly compliance report.	Not applicable as there is no IF and RHF
x.	Low NOx Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.	Not applicable as there is no reheating furnace at plant
IV	Air Quality Monitoring And Preservation In Case Of Di Pipe	
i.	Ductile Iron (DI) plant shall have the following provisions: a. Bag filter for Zn coating and Mg converter area. b. Wet scrubbers in paint and bitumen coating area. c. Bag Filter in Cement lining area. d. PTFE dipped bags shall be used in the plant. e. PM emissions from BF in Zinc coating area shall be 5 mg/Nm ³ . f. ETP with recycling facility shall be included, if applicable.	Noted. Currently Not applicable as DI is in construction phase
V	Air Quality Monitoring And Preservation In Case Of Bof	

i.	Basic Oxygen Furnace (BOF) gas shall be cleaned dry	Not applicable as there is no Basic Oxygen Furnace
VI	Water quality monitoring and preservation	
i	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate this system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied. Continuous Effluent Monitoring Systems are present at our plant and are connected to GSPCB and CPCB. Calibration of CEMS is done as per schedule
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at enough piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Complied. Ground water quality is monitored twice a year, pre-monsoon, and post-monsoon. Ground water quality monitoring was done in the surrounding villages i.e. Amona, Navelim and Maina in the month of May'24(premonsoon) and October 2024 as a part of post monsoon ground water study. Annexure XV: Pre and Post monsoon ground water quality analysis
iii.	Garland drains and collection pits shall be provided for each stockpile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Complied. Garland drains and catch ponds have been made along the stock piles to arrest the run-off in the event of heavy rains and water pollution during rainy season
iv.	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Complied. Water meters are installed at the inlet of all the unit processes.
v.	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.	Complied. Process water is recycled and reused. Rain water harvesting is practiced and water is used for process also treated water from STP's is reused for cooling/quenching purpose. No process water is discharged except for blowdown water used for cooling purpose at Waste heat recovery powerplant.

vi.	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body	Complied.No process water is discharged except for blowdown water used for cooling purposes of non-contact type condenser at Waste heat recovery powerplant. Sewage treatment plants are present for sewage water treatment also soak pits are provided which are cleared regularly through night soil tankers.
vii.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the runoff material and shall be implemented as per the action plan submitted in EIA/EMP report.	Complied. Rain guns, fog cannons,are available in yard for dust suppression, Garland drains are made along the stock piles and connected to settling ponds to trap the runoff.
viii.	Rainwater harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.	Rainwater harvesting is implemented, and water is used for process. In the FY 24-25 218639m ³ qty was harvested and reused
VII	Water Quality Monitoring And Preservation In Case Of Rolling Mills	
i.	The project proponent shall provide the ETP for effluents of rolling mills, if applicable, to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to Coke oven plants) as amended from time to time.	Not applicable. Our coke oven batteries are non-recovery type coke ovens where entire water used for coke quenching is recycled back to process after passing through settling ponds
ii.	Treated water from ETP of COBP shall not be used for coke quenching, if applicable.	Not applicable as there are no rolling mills
VIII	Noise monitoring and prevention	
i.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Complied. Noise monitoring is conducted quarterly, and report is submitted to GSPCB and CPCB. Annexure XVI: Noise monitoring reports
ii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during daytime and 70 dB(A) during night time.	Complied. Noise monitoring is conducted quarterly, and report is submitted to GSPCB and CPCB.
IX	Energy Conservation measures:	
i.	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	Not applicable. In current operations, metal is getting covered with insulation compound and hot metal is not transferred to longer distances, and it is poured into the pig casting machine. Hence, torpedo ladle is not required

ii.	Restrict Gas flaring to < 1%.	Complied. Gas flaring restricted to <1% shall be implemented, except for during any power plant shutdown. Flaring data is also tracked on daily basis so that any issue arising will be tracked and rectified immediately.
iii.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, streetlights, parking around project area and maintain the same regularly;	Complied. Solar power generation system of 100 KW is installed on roof top of admin building. The power utilized at plant is generated through Waste Heat Recovery Powerplants. Annexure XVII: Solar power installation
iv.	Provide LED lights in their offices and residential areas.	Complied. LED lights are provided
X	Energy Conservation Measures In Case Of Reheating Furnace	
i.	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.	Not applicable as there is no reheating furnace
ii.	Practice hot charging of slabs and billets/blooms as far as possible.	Not applicable as there is no reheating furnace
iii.	Coke Dry Quenching (CDQ) shall be provided for coke quenching for both recovery and nonrecovery type coke ovens.	Not applicable. <ul style="list-style-type: none"> Existing two coke oven batteries were built up in the year 1994 and 2013 with capacity 3,22,000 Tons/annum and 3,00,000 tons/annum respectively. The said coke ovens are of non-recovery type coke ovens wherein other material like tar etc are not recovered. The coke ovens are of horizontal assembly of ovens which works with negative pressure. For installing dry quenching plant coke oven battery capacity alone should be at least 5,00,000Tons/annum or more in single row. In our case individual coke oven batteries capacity is far less than 5,00,000Tons/annum. This gives 2,50,000 Tons/annum which is insufficient feed for the dry quenching plant There are two technologies which are available for coke oven namely chemical recovery and waste heat recovery. In case of chemical recovery lots of emission issues persist hence dry quenching is feasible. However, for non recovery type of coke ovens are operated with negative pressure with mandatory waste heat recovery. In case of our existing non recovery type coke ovens the waste heat recovery is at the rate of 500 /tons of coke which is higher than others Dry quenching plant is more feasible in vertical coke ovens. In case of Horizontal coke batteries, the civil structure for quenching tunnel shall be built at particular height which is quite difficult as we have to dug deep below the ground level for this structure. As these existing coke oven batteries are 30 years and 10 years old respectively the space around these

		<p>coke oven batteries are already occupied by different structures and currently no space available to install any plant around the coke ovens.</p> <ul style="list-style-type: none"> • There is existing wet quenching towers provided with grid arrestor and spray` systems
XI	Waste management	
i.	Kitchen waste shall be composted or converted to biogas for further use.	Complied. Kitchen waste is treated in a composting unit and is recycled for further use
ii.	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.	Not applicable as there is no fly ash generation
iii.	<p>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/.</p> <p>a. 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</p>	<p>Complied.</p> <p>Annexure XVIII: Snapshots of SUP free awareness sessions</p>
iv.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	<p>Complied. All e-waste is disposed of through authorized vendors within the timeline as per E waste rules.</p> <p>Annexure XIX: Sample copy of E waste disposal manifest</p>
v.	Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in	Complied. Slag generated is directly sold to cement plant. All solid waste is recycled and reused except for bio medical waste and hazardous waste like paint tins, oil

	cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.	filters, oil-soaked cotton waste and resins. Used refractories are utilized for road making.
XII	Waste Management In Case Of Sinter Plant	
i.	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.	Not applicable. No SMS slag generated at plant
ii.	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.	Not applicable as Dust generated in GCP is recycled. The same is used as raw material in sinter production
iii.	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.	Not applicable as Scrap is sold to authorized vendors, flux waste is reused in sinter plant production.
iv.	In case of non-recovery coke ovens, the gas main carrying hot flue gases to the boiler, shall be insulated to conserve heat and to maximise heat recovery.	Complied. Gas line carrying hot flue gases to the boiler is insulated
v.	Tar Sludge and waste oil shall be blended with coal charged in coke ovens (applicable only to recovery type coke ovens).	Not applicable.
XIII	Green Belt	
i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	Complied. GHG emissions inventory is prepared for the plant. As a part of GHG reduction program we have done installation of free EV charging station at Navelim for employees & community, Biodiesel usage for heating ovens, Reduction in total carbon bearing material in blast furnaces through process optimization and oxygen enrichment, 100KW solar panel installation at admin block, Energy audit at plant and annual plantation program at plant and in surrounding villages

ii.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	Complied. Decarbonization plan has been prepared and is being monitored periodically for implementation. Annexure XX: Decarbonization plan
iii.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Complied.33.5% of total land is developed as green belt area Excavated loose soil is dumped separately and covered with geotextile. All internal roads are black topped
iv.	The PP shall provide additional green belt within the premises of the schools, in consultation with school authorities, within a radius of 1 K.M. from the Plant.	Complied.During monsoons FY 24-25, plantation was conducted at Government high school Navelim and Government primary school Maina. Fresh plantation activities will be carried out along the plant boundaries and in the schools during upcoming Monsoon season. (Jun-Sept'25)
XIV	Public Hearing And Human Health Issues	
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is implemented
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	Complied. Heat Stress study is part of our hygiene study which is conducted once every two years. Annexure XXI: Heat stress study reports

iii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Not applicable as there is no housing facility for labours within the plant premises.
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Complied. Occupational health surveillance is done annually
XV	Environment Management	
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	Complied. The baseline survey of the areas surrounding the plant was carried out and accordingly the CER activities are planned in the village.
ii.	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.	Complied. The company has a Health, Safety and Environment policy in place. We are ISO14000:2015 certified (Environment Management System). Also, there is a system in place for tracking and reporting of all the statutory compliances
iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied. Separate Environment cell exists both at project as well as head quarter. Separate budget is allocated towards environmental measures at site

iv.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.	Complied. Efficiency monitoring is conducted annually, and reports are submitted to GSPCB and CPCB. Annexure XXII: Efficiency monitoring reports
XVI	Miscellaneous	
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied. Advertisement regarding grant of EC has been published on two local newspapers The Goan every day and Goan Varta: Environmental Clearance has also been displayed on company's website https://sesagoaironore.com/ under Sustainability section Annexure XXIII: EC advertisement in newspapers
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied Annexure XXIV: Copies submitted to local bodies
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied. Six-monthly EC Compliance status report is submitted to MoEF&CC, CPCB & GSPCB. The same is uploaded on company's website https://sesagoaironore.com/ under Sustainability section.
iv.	The project proponent shall monitor the criteria pollutants level namely, PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied. Ambient air monitoring and stack emission monitoring is monitored at the plant site and the results are being displayed on the digital display boards installed at our gates. Reports are uploaded on the company website. Annexure XXV: Digital display board
v.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented	Complied. All internal and connecting roads are blacktopped in terms of MSA as per IRC guidelines.
vi.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complied. Status of the compliance of the stipulated environmental conditions is submitted on the website of the Ministry of Environment, Forest and Climate Change.

vii.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company	Complied. Yearly Environmental Statement in Form-V is submitted to the Goa State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986 and is uploaded on company's website https://sesagoaironore.com/ under Sustainability section
viii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Noted and compliance assured
ix.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted and compliance assured
x.	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	Complied. Approved wildlife management plan for 5 years received from the State Forest Department, Govt. of Goa, the implementation of the same is in progress. As a part of the plan 25 nos. of trap cameras, Sponsorships towards Bird Festival and Wildlife Week celebration, financial support for establishing water holes in wildlife buffer area and Rescue van along with rescue cage was handed over to forest department.
xi.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left-over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.	Complied. The details of the community development activities are available on the company website Environment Reports Sesa goa iron ore
xii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted and compliance assured.
xiii.	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.	Noted.
xiv.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.

xv.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted.
xvi.	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.	Noted. Full co-operation will be extended
xvii.	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.	Noted.

Annexure I
Photographs of plantation.

PLANTATION PHOTOS



PLANTATION PHOTOS



PLANTATION PHOTOS



PLANTATION PHOTOS



Annexure II
AAQM Village Monitoring Reports



SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

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Test Report No.	SL/24-25/10/MAA/05W, 30sec, 42sec, 62s, 85s, 95s, 103s, 111s, 5L	T. R. Date	05/11/2024
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMDNAANDNAVELIM, BICHOLIUM-GOIA.		
Letter Ref/ Date.	Ref. No. 4920073634 dated 14/10/2024		
Sampling Done By	SATPL Representative	Page No.	1 of 1
Month of Sampling	OCTOBER- 2024		

SAMPLINGDETAILS - AMBIENTAIRMONITORING: -

Sampling Location	Location-Near Amona Village
Duration of Sampling [Hrs.]	24
Average Ambient Temperature[°C]	28.0
Average Relative Humidity [%]	89

ANALYSISREPORT:-

Sr.	Report No.	Date of Sampling	Parameters												
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃	CO***	Pb	Cd	As	Ni	Cr***	Ba/P	
1	SL/24-25/10/MAA/05W	05/10/2024	49.03	24.51	11.37	18.44	<20.0	0.29	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
2	SL/24-25/10/MAA/30sec	07/10/2024	51.12	26.45	9.77	14.83	<20.0	0.33	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
3	SL/24-25/10/MAA/42sec	10/10/2024	44.70	23.87	11.73	13.83	<20.0	0.27	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
4	SL/24-25/10/MAA/62s	14/10/2024	48.84	24.51	8.46	17.13	<20.0	0.26	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
5	SL/24-25/10/MAA/85s	17/10/2024	53.86	27.01	11.67	16.58	<20.0	0.30	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
6	SL/24-25/10/MAA/95s	21/10/2024	50.83	26.38	9.13	16.21	<20.0	0.27	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
7	SL/24-25/10/MAA/103s	24/10/2024	45.17	22.87	9.77	13.48	<20.0	0.22	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
8	SL/24-25/10/MAA/111s	28/10/2024	49.89	24.95	12.33	16.88	<20.0	0.27	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
9	SL/24-25/11/MAA/5L	11/10/2024	46.79	23.78	10.42	13.32	<20.0	0.26	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
NAAQS Limits*			100	60	80	80	400	4	1	5	5	30	100	1	
Limits			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	

*N.A.A.Q.S.-National Ambient Air Quality Standards.

**Annual arithmetic means of minimum 364 measurements in a year at particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

EQUIPMENTCALIBRATIONDETAILS:

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
28-F-05	Flow Calibrator for SO ₂ & Rotameter (Dry Gas Meter)	SATPL/AR/FC/18	PT02131	18.03.2024	15.03.2025
28-F-06	Flow Calibrator for SO ₂ & Rotameter (Wet Wash)	SATPL/AR/FC/18	ET02132	18.03.2024	15.03.2025
0218	Two loading Orifice Flow Calibrator	SATPL/AR/FC/18	PT02131	18.03.2024	17.03.2025
1113	Digital Electronic Pressure Indicator	SATPL/AR/PS/05	MC02120	18.03.2024	17.03.2025
081211782011	FINEDUSTSAMPLER (PM10)	SATPL/AR/AS/25	ADPA/2023-2A/205-08	18.03.2024	18.03.2025
08090311010	SO ₂ PM10-1	SATPL/AR/AS/25	ADPA/2023-2A/205-08	18.03.2024	18.03.2025
08090311020	Gaseous Attachment Sample	SATPL/AR/AS/25	ADPA/2023-2A/205-08	18.03.2024	18.03.2025
0807	Digital Electronic Balance	SL/798/01	ACC/084/CH 100(20007)	17.03.2024	18.03.2025
08	Digital Spectrophotometer Model	SL/11/04			In-house Calibration

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

—End of Test Report—

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

Lab: 104,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune. 411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamsdapura, 391 773 Dist. Vadodra

Customer Care No.: +919223347365 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

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



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Test Report No.	SL/24-25/10/MAA/05F, 05Fag, 42ag, 62a, 89aa, 99a, 103b, 111a, 50B.	T. R. Date	05/11/2024
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM-GOA.		
Letter Ref/Date.	Ref. No. 4920073614 dated 14/10/2024		
Sampling Done By	SATPL Representative	Page No.	1 of 1
Month of Sampling	OCTOBER- 2024		

SAMPLING DETAILS - AMBIENT AIR MONITORING:

Sampling Location	Location- Navelim Village.
Duration of Sampling [Hrs.]	24
Average Ambient Temperature [°C]	28.0
Average Relative Humidity [%]	85

ANALYSIS REPORT:

Sl. No.	Report No.	Date of Sampling	Parameters												
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃	CO***	Pb	Cu	As	Mn	Q ₁ ***	Na/P	
1	SL/24-25/10/MAA/05F	05/10/2024	31.17	26.20	11.07	18.32	<0.0	0.27	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1	
2	SL/24-25/10/MAA/39aag	07/10/2024	45.54	23.29	9.77	14.88	<0.0	0.29	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1	
3	SL/24-25/10/MAA/42ag	10/10/2024	47.47	23.70	11.37	15.97	<0.0	0.33	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1	
4	SL/24-25/10/MAA/10a	14/10/2024	49.81	24.95	9.11	16.41	<0.0	0.27	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1	
5	SL/24-25/10/MAA/89aa	17/10/2024	42.93	21.04	11.72	15.39	<0.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1	
6	SL/24-25/10/MAA/99a	11/10/2024	46.18	23.70	10.42	17.35	<0.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1	
7	SL/24-25/10/MAA/103b	24/10/2024	50.11	25.18	6.46	15.17	<0.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1	
8	SL/24-25/10/MAA/111a	28/10/2024	44.06	22.46	11.07	16.31	<0.0	0.34	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1	
9	SL/24-25/11/MAA/50B	11/10/2024	49.01	25.17	9.17	14.75	<0.0	0.30	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1	
NAAQS Limits*			100	60	80	80	400	4	1	5	5	20	100	1	
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	

*N.A.A.Q.S.-National Ambient Air Quality Standards.

** Annual arithmetic means of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

EQUIPMENT CALIBRATION DETAILS

Sl. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
10-0-00	Flow Calibrator for DDM & Rotameter (Dry Gas Meter)	SATPL/JANAY/24	FR0111	16.01.2024	15.01.2025
10-0-05	Flow Calibrator for DDM & Rotameter (Dry Weigh)	SATPL/JANAY/23	ET0111	16.01.2024	15.01.2025
0223	Top Loading On-line Flow Calibrator	SATPL/JANAY/22022	FR0117	16.01.2024	17.01.2025
1113	Digital Resonance Pressure Indicator	SATPL/JANAY/205	ME0320	14.01.2024	17.01.2025
000001	FINE DUST SAMPLER (PAL-5)	SATPL/ANAY/19	ANPM/2013-24/205-07	18.01.2024	18.01.2025
000002	ROD (PM10)	SATPL/ANAY/18	ANPM/2013-24/205-07	18.01.2024	18.01.2025
000003	Samplers Attachment Sample	SATPL/ANAY/19	ANPM/2013-24/205-07	18.01.2024	18.01.2025
05017	Digital Electronic Balance		ACS4004CM NAO 30071	18.01.2024	18.01.2025
04	Digital Spectrophotometer Model				

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

—End of Test Report—

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

Lab: 164 Shreeji Terrace Apt. Plot No. 51, Purna Nagar, Chikhal, Pune-411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Sivil, Landapur. 391 773 Dist. Vadodra

Customer Care No.: +919225247360 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

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

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Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL, Valid Up to 12/30/2025.

Test Report No.	SL/24-25/11/MMA/50AAK, 50AAW, 78AA, 85AA, 10AAH, 138V, 144AAa, 154Ag	T. R. Date	05/12/2024
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONAANDNAVELIM, BICHOLIM-GOA.		
Letter Ref/ Date.	Ref. No. 4920074218 dated 12/11/2024		
Sampling Done By	SATPL Representative	Page No.	1 of 1
Month of Sampling	NOVEMBER-2024		

SAMPLINGDETAILS - AMBIENTAIRMONITORING: -

Sampling Location	Location-Near Amona Village
Duration of Sampling (Hrs.)	24
Average Ambient Temperature[°C]	30
Average Relative Humidity [%]	74

ANALYSISREPORT:-

Sl. No.	Report No.	Date of Sampling	Parameters											
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃	CO***	Pb	Cd	As	Mn	O ₃ ***	Ba/P
1	SL/24-25/11/MMA/50AAK	04/11/2024	54.83	25.20	35.42	15.58	<20.0	0.41	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
2	SL/24-25/11/MMA/50AAW	07/11/2024	68.34	24.53	31.37	17.26	<20.0	0.42	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
3	SL/24-25/11/MMA/78AA	11/11/2024	58.93	28.88	8.46	19.05	<20.0	0.38	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
4	SL/24-25/11/MMA/85AAa	14/11/2024	51.55	25.37	11.07	16.81	<20.0	0.25	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
5	SL/24-25/11/MMA/10AAH	18/11/2024	55.03	26.61	9.77	18.00	<20.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
6	SL/24-25/11/MMA/138V	11/11/2024	57.02	28.28	30.42	14.78	<20.0	0.33	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
7	SL/24-25/11/MMA/144AAa	25/11/2024	52.84	24.12	13.02	16.20	<20.0	0.26	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
8	SL/24-25/11/MMA/154Ag	28/11/2024	54.11	25.37	9.32	13.13	<20.0	0.25	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2
NAQS Limits*			100	60	80	80	400	4	1	3	6	10	100	1
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	mg/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³

*N.A.A.Q.S.-National Ambient Air Quality Standards.

**Annual arithmetic means of minimum 104 measurements in a year at particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

EQUIPMENTCALIBRATIONDETAILS

Sl. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
144-06	Flow Calibrator for DMG & Rotameter (Dry Gas Meter)	SATPL/AM/FC/08	FF91021	14.09.2024	13.09.2025
137-05	Flow Calibrator for DMG & Rotameter (Dose Weight)	SATPL/AM/FC/08	FF01022	14.09.2024	13.09.2025
0219	Top Loading Orifice Flow Calibrator	SATPL/AM/TLOC/12	FF01027	14.09.2024	17.09.2025
1119	Digital Resonance Pressure Indicator	SATPL/AM/SP/05	M00128	14.09.2024	17.09.2025
10120780011	FINDUSTSAMPLER (PM10)	SATPL/AM/SAAS/15	ASPM/2023-24/005-08	05.09.2024	18.09.2025
20090110012	ROD (PM10)	SATPL/AM/SAAS/15	ASPM/2023-24/005-08	05.09.2024	18.09.2025
40040110010	Resonance Attachment Sample	SATPL/AM/SAAS/15	ASPM/2023-24/005-08	05.09.2024	18.09.2025
10417	Digital Electronic Balance	SL/SM/AC	ACQ/06/CM 90/10012	19.07.2024	18.09.2025
04	Digital Spectrophotometer Model	SL/SL/SM			In-house Calibration

Review By,

Sr. Analyst



—End of Test Report—

For Shreeji Aqua Treatment Pvt. Ltd.

Quality Manager
Authorized Signatory

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

Lab: 164,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019

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

Customer Care No.: +919225347365 Email: info@shreejiacqua.com Web: www.shreejiacqua.com

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



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Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL, Valid Up to 31/06/2025.

Test Report No.	SL/24-25/11/MAA/30AAZ, 30AAJ, 30AAK, 30AAL, 30AAM, 30AAN, 30AAO, 30AAP, 30AAQ, 30AAR, 30AAS, 30AAU, 30AAV, 30AAW, 30AAX, 30AAY, 30AAZ	T. R. Date	05/11/2024
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMDONA AND NAVELIM, BICHOLIM-GOA.		
Letter Ref/Date.	Ref. No. 49200742118 dated 12/11/2024		
Sampling Done By	SATPL Representative	Page No.	1 of 1
Month of Sampling	NOVEMBER- 2024		

SAMPLING DETAILS – AMBIENT AIR MONITORING: -

Sampling Location	Location- Navelim Village
Duration of Sampling [Hrs.]	24
Average Ambient Temperature[°C]	30.0
Average Relative Humidity [%]	74

ANALYSIS REPORT:-

Sr.	Report No.	Date of Sampling	Parameters												
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃	CO****	Pb	Cd	As	Hg	Cr****	BMP	
1	SL/24-25/11/MAA/30AAZ	04/11/2024	24.12	24.95	12.37	17.01	<20.0	0.29	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2	
2	SL/24-25/11/MAA/30AAJ	07/11/2024	48.52	25.57	8.46	18.41	<20.0	0.45	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2	
3	SL/24-25/11/MAA/30AAK	11/11/2024	51.75	27.09	10.40	13.89	<20.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2	
4	SL/24-25/11/MAA/30AAL	14/11/2024	43.63	20.38	9.77	15.87	<20.0	0.21	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2	
5	SL/24-25/11/MAA/30AAO	18/11/2024	47.25	23.29	9.32	16.66	<20.0	0.33	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2	
6	SL/24-25/11/MAA/30AAU	21/11/2024	57.65	27.86	11.07	18.06	<20.0	0.27	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2	
7	SL/24-25/11/MAA/30AAV	25/11/2024	52.23	24.12	10.47	17.30	<20.0	0.34	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2	
8	SL/24-25/11/MAA/30AAW	28/11/2024	49.11	23.29	8.46	14.11	<20.0	0.37	<0.1	<1.0	<5.0	<5.0	<20.0	<0.2	
NAAQ5 Limits*			100	60	80	80	400	4	1	5	6	20	100	1	
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	

*N.A.A.Q.5 – National Ambient Air Quality Standards.

**Annual arithmetic means of minimum 304 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
05-F-05	Flow Calibrator for OGM & Rotameter (Dry Gas Meter)	SATPL/MB/FC/28	PT02212	16.05.2024	21.05.2025
05-F-06	Flow Calibrator for BSM & Rotameter (Wet-Weigh)	SATPL/MB/FC/28	PT02212	16.05.2024	21.05.2025
0219	Top loading Orifice Flow Calibrator	SATPL/MB/FC/23	PT04117	16.05.2024	17.05.2025
1115	Digital Barometric Pressure Indicator	SATPL/MB/PI/05	MB02218	16.05.2024	17.05.2025
1089(C1)	FINEDUSTSAMPLER (PM2.5)	SATPL/MB/AS/28	ASPM/2023-24/105-01	16.05.2024	16.05.2025
1084(C1)(C2)	RDS (PM10)	SATPL/MB/AS/28	ASPM/2023-24/105-01	16.05.2024	16.05.2025
1083(C1)(C2)	Grosses Absorbent Sample	SATPL/MB/AS/28	ASPM/2023-24/105-01	16.05.2024	16.05.2025
03017	Digital Electronic Balance	SL/2005/41	AC340A/CN 30/230012	16.05.2024	16.05.2025
66	Digital Spectrophotometer Model	SL/24/28	—————	In-house Calibration	

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.

Quality Manager
(Authorized Signatory)

— End of Test Report —

Pune: Plot No. B-24, H Block, La'Topi Nagar, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 164, Shreeji Terrace Apt. Plot No. 53, Punna Nagar, Chikhali, Pune: 411019

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

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

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

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Test Report No.	SL/24-25/12/MAA/01AAP, 40v, 66v, 72AH, 80v, 100v, 121u, 132Z, 140M	T. R. Date	04/01/2025
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONAANDNAVELIM, BICHOLIM-GOA.		
Letter Ref/ Date.	Ref. No. 4920074711 dated 05/12/2024		
Sampling Done by	SATPL Representative	Page No.	1 of 1
Month of Sampling	DECEMBER- 2024		

SAMPLINGDETAILS - AMBIENTMONITORING: -

Sampling Location	Location-Near Amona Village
Duration of Sampling [Hrs.]	14
Average Ambient Temperature[°C]	31
Average Relative Humidity [%]	72

ANALYSISREPORT:-

Sl. No.	Report No.	Date of Sampling	Parameters											
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃	CO***	Pb	Cu	As	Mn	Cr***	Ba/P
1	SL/24-25/12/MAA/01AAP	02/12/2024	64.71	12.03	11.71	17.68	<30.0	0.21	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
2	SL/24-25/12/MAA/40v	05/12/2024	54.85	27.45	8.44	11.15	<30.0	0.37	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
3	SL/24-25/12/MAA/66v	08/12/2024	60.81	29.52	13.07	11.21	<30.0	0.11	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
4	SL/24-25/12/MAA/72AH	12/12/2024	48.58	25.37	9.77	11.67	<30.0	0.43	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
5	SL/24-25/12/MAA/80v	16/12/2024	59.48	30.36	8.12	11.57	<30.0	0.29	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
6	SL/24-25/12/MAA/100v	19/12/2024	52.6	26.61	12.37	17.34	<30.0	0.36	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
7	SL/24-25/12/MAA/121u	23/12/2024	56.71	28.28	10.42	11.41	<30.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
8	SL/24-25/12/MAA/132Z	26/12/2024	62.31	29.94	8.44	11.27	<30.0	0.25	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
9	SL/24-25/12/MAA/140M	30/12/2024	51.58	27.03	13.03	11.17	<30.0	0.38	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
MAAQ5 Limits*			100	50	80	80	800	4	1	5	5	20	100	1
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³

*N.A.A.Q.5-National Ambient Air Quality Standards.

**Annual arithmetic means of minimum 104 measurements in a year at particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

EQUIPMENTCALIBRATIONDETAILS

Sl. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
001-05	Flow Calibrator for O2M & Rotameter (Dry Gas Meter)	SATPL/AR/FC/18	PT01211	16/01/2024	16/01/2025
001-06	Flow Calibrator for O2M & Rotameter (Wet Gas Meter)	SATPL/AR/FC/18	PT01212	16/01/2024	16/01/2025
001-07	Zero Leaking Orifice Flow Calibrator	SATPL/AR/FLDC/02	PT01217	18/01/2024	17/01/2025
1210	Digital Barometric Pressure Indicator	SATPL/AR/SP/05	W002238	18/01/2024	17/01/2025
0010718001	FINEDUSTSAMPLER (PM10)	SATPL/AR/MS/23	WSP/2024-24/101-09	19/01/2024	18/01/2025
0010711002	ROS (PM10)	SATPL/AR/MS/23	WSP/2024-24/101-09	19/01/2024	18/01/2025
0010711003	Gaseous Attachment Sample	SATPL/AR/MS/23	WSP/2024-24/101-09	19/01/2024	18/01/2025
00107	Digital Electronic Balance	SL/7MS/41	WCL/MS/CM 25/210071	15/01/2024	14/01/2025
001	Digital Spectrophotometer Model	SL/72/38		In-house Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
 Managing Director
 Authorized Signatory

—End of Test Report—

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

Lah: 184 Shreeji Terrace Apt. Plot No. 33, Purna Nagar, Chikhali, Pune-411019

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

Customer Care No.: +919223247165 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

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

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Test Report No.	SL/24-25/13/MAA/01AAR, 40w, 66AB, 71AJ, 80w, 105, 121w, 132b, 140C	T. R. Date	04/01/2025
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM-GOA.		
Letter Ref/Date.	Ref. No. 4926074711 dated 05/12/2024		
Sampling Done By	SATPL Representative	Page No.	1 of 1
Month of Sampling	DECEMBER- 2024		

SAMPLING DETAILS – AMBIENT AIR MONITORING: -

Sampling Location	Location- Navelim Village
Duration of Sampling [Hrs.]	24
Average Ambient Temperature[°C]	31
Average Relative Humidity [%]	72

ANALYSIS REPORT: -

Sl. No.	Report No.	Date of Sampling	Parameters												
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃	CO***	Pb	Cu ₂	As	Hg	O ₃ ***	WSP	
1	SL/24-25/13/MAA/01AAR	03/12/2024	63.30	24.28	9.77	13.94	<0.0	0.22	<0.1	<1.0	<0.0	<0.0	<0.0	<0.0	
2	SL/24-25/13/MAA/40w	05/12/2024	53.12	27.03	11.07	18.10	<0.0	0.23	<0.1	<1.0	<0.0	<0.0	<0.0		
3	SL/24-25/13/MAA/66AB	09/12/2024	50.67	24.53	7.38	18.40	<0.0	0.26	<0.1	<1.0	<0.0	<0.0	<0.0		
4	SL/24-25/13/MAA/71AJ	12/12/2024	45.55	22.87	8.46	12.76	<0.0	0.25	<0.1	<1.0	<0.0	<0.0	<0.0		
5	SL/24-25/13/MAA/80w	16/12/2024	51.07	25.17	16.42	16.60	<0.0	0.30	<0.1	<1.0	<0.0	<0.0	<0.0		
6	SL/24-25/13/MAA/105	19/12/2024	63.94	31.0	8.46	14.31	<0.0	0.28	<0.1	<1.0	<0.0	<0.0	<0.0		
7	SL/24-25/13/MAA/121w	23/12/2024	49.07	22.46	9.22	15.87	<0.0	0.17	<0.1	<1.0	<0.0	<0.0	<0.0		
8	SL/24-25/13/MAA/132b	26/12/2024	45.45	24.53	7.19	18.41	<0.0	0.15	<0.1	<1.0	<0.0	<0.0	<0.0		
9	SL/24-25/13/MAA/140C	30/12/2024	52.99	26.20	9.77	20.20	<0.0	0.29	<0.1	<1.0	<0.0	<0.0	<0.0		
NAAQ5 Limits*			100	60	80	80	400	4	1	5	5	20	100	1	
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	

*N.A.A.Q.S.-National Ambient Air Quality Standards.

**Annual arithmetic means of minimum104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

EQUIPMENT CALIBRATION DETAILS

Sl. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
010	Flow Calibrator for DGM & Rotameter (Dry Gas Meter)	SATPL/AB/FC/18	PT03121	16/03/2024	15/03/2025
011-05	Flow Calibrator for DGM & Rotameter (Soap Marsh)	SATPL/AB/FC/18	PT03121	16/03/2024	15/03/2025
0120	Top loading Drifted Flow Calibrator	SATPL/AB/FC/03	PT03117	16/03/2024	15/03/2025
0129	Digital Barometric Pressure Indicator	SATPL/AB/BI/05	W003126	16/03/2024	15/03/2025
0080(1)	FINE DUST SAMPLER (PM ₁₀)	SATPL/AB/AS/19	AWP/1123-24/025-07	16/03/2024	16/03/2025
0084(1)(001)	RDS (PM ₁₀)	SATPL/AB/QAS/19	AWP/1123-24/025-07	16/03/2024	16/03/2025
0085(1)(001)	Maximum Attenuation Sampler	SATPL/AB/AS/19	AWP/1123-24/025-07	16/03/2024	16/03/2025
0091	Digital Electronic Balance	SL/MS/4	ACI/MS/CM/32/100073	18/03/2024	18/03/2025
04	Digital Spectrophotometer Model	SL/A/14		In-house Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



—End of Test Report—

SJM
Managing Director
Authorized Signatory

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

Lab: 10A,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411018

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

Customer Care No.: +919225247380 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

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Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL, Valid Up to 15/06/2026.

Test Report No.	SL/24-25/01/MAA/052, 24ed, 50n, 58ak, 74b, 81V, 98L, 107R, 126Z	T. R. Date	04/02/2025
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONAAONAVELIM, BICHOLIM-GOA.		
Letter Ref/ Date.	Ref. No. 4920075346 dated 09/01/2025		
Sampling Done By	SATPL Representative	Page No.	1 of 1
Month of Sampling	JANUARY- 2025		

SAMPLINGDETAILS - AMBIENTAIRMONITORING:

Sampling Location	Location-Near Amona Village
Duration of Sampling [Hrs.]	24
Average Ambient Temperature[°C]	30
Average relative Humidity [%]	70

ANALYSISREPORT:

Sl. No.	Report No.	Date of Sampling	Parameters											
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	RH ₁	CO***	Pb	CaL	As	Ni	Cr***	BaP
1	SL/24-25/01/MAA/052	02/01/2025	50.23	24.53	9.77	13.83	<0.0	0.28	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
1	SL/24-25/01/MAA/24ed	06/01/2025	46.02	22.04	18.67	17.36	<0.0	0.38	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
3	SL/24-25/01/MAA/50n	09/01/2025	56.41	27.03	8.48	11.73	<0.0	0.38	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
4	SL/24-25/01/MAA/58ak	13/01/2025	53.63	25.70	13.02	17.55	<0.0	0.41	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
5	SL/24-25/01/MAA/74b	16/01/2025	51.28	24.95	11.07	15.58	<0.0	0.25	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
6	SL/24-25/01/MAA/81V	20/01/2025	58.28	29.11	7.81	18.45	<0.0	0.31	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
7	SL/24-25/01/MAA/98L	23/01/2025	47.58	24.53	12.37	12.85	<0.0	0.41	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
8	SL/24-25/01/MAA/107R	27/01/2025	55.67	28.28	14.98	14.88	<0.0	0.27	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
9	SL/24-25/01/MAA/126Z	30/01/2025	50.52	25.78	7.18	17.30	<0.0	0.35	<0.1	<1.0	<5.0	<5.0	<20.0	<0.1
NAAQS Limits*			100	60	80	80	400	4	1	5	5	20	300	1
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³

*N.A.A.Q.S.-National Ambient Air Quality Standards.

** Annual arithmetic means of minimum 204 measurements in a year at particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

EQUIPMENTCALIBRATIONDETAILS:

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
05-F-05	Flow Calibrator for ODM & Rotameter (Dry Gas Meter)	SATPL/MS/FC/05	FF0121	16/01/2024	15/01/2025
05-F-06	Flow Calibrator for ODM & Rotameter (Dry NAAQS)	SATPL/MS/FC/06	FF0122	16/01/2024	15/01/2025
0118	Titre loading Driftless Flow Calibrator	SATPL/MS/TLC/01	FF0127	18/01/2024	17/01/2025
0119	Digital Barometric Pressure Indicator	SATPL/MS/PI/05	MS0128	18/01/2024	17/01/2025
01120702021	PM10/PM2.5ANALYS (PM1.0)	SATPL/MS/MS/25	MS/MS/2023-24/025-08	18/01/2024	18/01/2025
01120702020	NO3 (PM10)	SATPL/MS/MS/25	MS/MS/2023-24/025-08	18/01/2024	18/01/2025
01120702020	Gasoline Attachments Sample	SATPL/MS/MS/25	MS/MS/2023-24/025-08	18/01/2024	18/01/2025
01127	Digital Density Balance	SL/DWB03	NCL/MS/DM/20/2000/07	18/01/2024	18/01/2025
04	Digital Spectrophotometer Model	SL/SW04		In-house Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

—End of Test Report—

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

Lab: 164,Shreeji Terrace Apt, Plot No. 53, Purma Nagar, Chikhali, Pune 411019

Vadodara: Plot No.1, Sheh Ind. Park-1, Vadodera Sovli, Lamsdapura-391 275 Dist. Vadodra

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

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Test Report No.	SL/24-25/01/MAA/05b, 34a, 50a, 58am, 74d, 81X, 98N, 107T, 120a	T. R. Date	04/02/2025
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONA AND NVELIM, BICHOLIM-GOA.		
Letter Ref/Date.	Ref. No: 4920075346 dated 09/01/2025		
Sampling Done By	SATPL Representative	Page No.	1 of 1
Month of Sampling	JANUARY 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING: -

Sampling Location	Location- Navellim Village
Duration of Sampling [Hrs.]	24
Average Ambient Temperature [°C]	30
Average Relative Humidity [%]	70

ANALYSIS REPORT: -

Sl. No.	Report No.	Date of Sampling	Parameters												
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃	CO***	Pb	Cu%	As	Ni	O ₃ ***	8hAQP	
1	SL/24-25/01/MAA/05b	02/01/2025	53.88	26.20	34.11	34.88	<20.0	0.29	<0.1	<1.0	<1.0	<5.0	<10.0	<0.1	
2	SL/24-25/01/MAA/34a	06/01/2025	61.33	29.94	7.16	29.78	<20.0	0.36	<0.1	<1.0	<1.0	<5.0	<10.0	<0.1	
3	SL/24-25/01/MAA/50a	09/01/2025	56.35	26.61	11.07	17.40	<20.0	0.27	<0.1	<1.0	<1.0	<5.0	<10.0	<0.1	
4	SL/24-25/01/MAA/58am	13/01/2025	48.81	24.53	12.17	15.51	<20.0	0.38	<0.1	<1.0	<1.0	<5.0	<10.0	<0.1	
5	SL/24-25/01/MAA/74d	16/01/2025	58.02	27.86	8.46	19.40	<20.0	0.40	<0.1	<1.0	<1.0	<5.0	<10.0	<0.1	
6	SL/24-25/01/MAA/81X	20/01/2025	65.11	32.44	10.42	13.13	<20.0	0.25	<0.1	<1.0	<1.0	<5.0	<10.0	<0.1	
7	SL/24-25/01/MAA/98N	23/01/2025	51.60	25.37	7.16	18.98	<20.0	0.14	<0.1	<1.0	<1.0	<5.0	<10.0	<0.1	
8	SL/24-25/01/MAA/107T	27/01/2025	50.50	25.78	8.13	20.49	<20.0	0.42	<0.1	<1.0	<1.0	<5.0	<10.0	<0.1	
9	SL/24-25/01/MAA/120a	30/01/2025	51.53	27.03	7.81	17.36	<20.0	0.16	<0.1	<1.0	<1.0	<5.0	<10.0	<0.1	
NAAQS Limit*			100	60	80	80	400	4	1	5	6	20	100	1	
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	ppb/µg	ppb/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	

*N.A.A.Q.S. - National Ambient Air Quality Standards.

**Annual arithmetic means of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
09	Flow Calibrator for DSM & Rotameter (Dry Gas Meter)	SATPL/06/FC18	PT0221	16/03/2024	15/03/2025
05-F-05	Flow Calibrator for DSM & Rotameter (Wet Wash)	SATPL/06/FC18	PT0212	16/03/2024	15/03/2025
0219	Top Loading On-Flow Flow Calibrator	SATPL/06/FL15/01	PT0227	16/03/2024	13/03/2025
0118	Digital Barometric Pressure Indicator	SATPL/06/BS05	MP0213	16/03/2024	13/03/2025
000001	FINEPUS/PM10 (PM10)	SATPL/06/PM10	AMPA/1009-24/108-07	16/03/2024	16/03/2025
0004700001	NO ₂ (PM10)	SATPL/06/PM10	AMPA/1009-24/108-07	16/03/2024	16/03/2025
0000700001	Galvanic Attachment Sample	SATPL/06/PM10	AMPA/1009-24/108-07	16/03/2024	16/03/2025
00001	Digital Electronic Balance	SL/06/BA1	AC/100/CM 02/20073	16/03/2024	16/03/2025
06	Digital Spectrophotometer Model	SL/06/S4		Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

—End of Test Report—

Pune: Plot No. 9-24, H Block, Lal Topi Nagar, Morewad, 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-Savlji Landapura, 391 773 Dist. Vadodra

Customer Care No: +919225247360 Email: info@shreejaqua.com Web: www.shreejaqua.com

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|| Shreeji ||

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Test Report No.	SL/24-25/02/MAA/132, 146a, 239b, 246aaa, 295aa, 329b, 356AD, 362AB	T. R. Date	04/03/2025
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM-GOIA.		
Letter Ref/Date	Ref. No. 49200757RF dated 01/02/2025		
Sampling Done By	SATPL Representative	Page No.	1 of 1
Month of Sampling	FEBRUARY, 2025		

SAMPLING DETAILS – AMBIENT AIR MONITORING: –

Sampling Location	Location- Navelim Village
Duration of Sampling [Hrs.]	24
Average Ambient Temperature [°C]	30
Average Relative Humidity [%]	68

ANALYSIS REPORT: –

Sl. No.	Report No.	Date of Sampling	Parameters												
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃	CO***	PH	CO ₂	Ac	NI	O ₃ ***	NO _x **	
1	SL/24-25/02/MAA/132	03/02/2025	48.37	24.95	10.42	13.13	<0.0	0.17	+0.1	+1.0	+5.0	+5.0	<0.0	+0.2	
2	SL/24-25/02/MAA/146a	06/02/2025	53.64	26.30	12.87	18.86	<0.0	0.28	+0.1	+1.0	+5.0	+5.0	<0.0	+0.2	
3	SL/24-25/02/MAA/239b	10/02/2025	58.24	24.53	7.81	14.33	<0.0	0.41	+0.1	+1.0	+5.0	+5.0	<0.0	+0.2	
4	SL/24-25/02/MAA/246aaa	13/02/2025	50.70	27.86	9.77	16.25	<0.0	0.35	+0.1	+1.0	+5.0	+5.0	<0.0	+0.2	
5	SL/24-25/02/MAA/295aa	17/02/2025	56.12	25.87	11.87	23.83	<0.0	0.39	+0.1	+1.0	+5.0	+5.0	<0.0	+0.2	
6	SL/24-25/02/MAA/329b	20/02/2025	60.06	28.69	9.12	17.30	<0.0	0.28	+0.1	+1.0	+5.0	+5.0	<0.0	+0.2	
7	SL/24-25/02/MAA/356AD	24/02/2025	55.39	24.53	11.71	28.47	<0.0	0.37	+0.1	+1.0	+5.0	+5.0	<0.0	+0.2	
8	SL/24-25/02/MAA/362AB	27/02/2025	48.60	24.29	8.46	15.52	<0.0	0.38	+0.1	+1.0	+5.0	+5.0	<0.0	+0.2	
NAAQ5 Limits*			100	60	80	80	600	4	1	5	6	20	100	1	
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	ppb/m ³	ppb/m ³	ppb/m ³	ppb/m ³	ppb/m ³	ppb/m ³	ppb/m ³	

*N.A.A.Q.5–National Ambient Air Quality Standards.

**Annual arithmetic means of minimum104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
144-01	Flow Calibrator for DGM & Rotameter (Dry-Sea Meter)	SATPL/RR/FC/16	PT00211	26/01/2024	16/01/2025
144-02	Flow Calibrator for DGM & Rotameter (Drop Weigh)	SATPL/RR/FC/16	PT00211	26/01/2024	16/01/2025
1123	Top Loading Orifice Flow Calibrator	SATPL/RR/FC/112	PT00217	26/01/2024	17/01/2025
1124	Digital Electronic Pressure Indicator	SATPL/RR/PI/02	MS00228	26/01/2024	17/01/2025
1080/101	FINEDUST/SAMPLER (PM10)	SATPL/RR/WA/03	MSPM1009 24/05-07	25/01/2024	18/01/2025
1084/101001	RO (PM10)	SATPL/RR/WA/03	MSPM1009 24/05-07	25/01/2024	18/01/2025
10810/10101	Reverse Attachment Sample	SATPL/RR/WA/03	MSPM1009 24/05-07	25/01/2024	18/01/2025
10417	Digital Electronic Balance	SL/24/BR/1	KCS/MS/UM 10/23/0012	23/01/2024	26/01/2025
NA	Digital Spectrophotometer Model	SL/24/704		In-house Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

—End of Test Report—

Pune: Plot No. 8-24, Hilllock, Lal Topi Nagar, Morwad, MIDC, Pimpri-Chinchwad, Maharashtra-411018.

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

Vadodara: Plot No. 1, Sheh Ind. Park-1, Vadodara-Savli, Landaparsi. 391 775 Dist. Vadodra

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Test Report No.	SL/24-25/02/MAA/131Y, 146Z, 313a, 346a, 299a, 329a, 356AC, 362AA	T. R. Date	04/03/2025
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONAANDNAVELIM, BICHOLIM-GOIA.		
Letter Ref/ Date.	Ref. No. 4920075788 dated 01/02/2025		
Sampling Done By	SATPL Representative	Page No.	1 of 1
Month of Sampling	FEBRUARY, 2025		

SAMPLINGDETAILS - AMBIENTAIRMONITORING:-

Sampling Location	Location-Near Amona Villags
Duration of Sampling (Hrs.)	24
Average Ambient Temperature(°C)	30
Average Relative Humidity (%)	68

ANALYSISREPORT:-

Sl. No.	Report No.	Date of Sampling	Parameters												
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃	CO ^{***}	Pb	Cu	As	Ni	Cr ^{***}	BaP	
1	SL/24-25/02/MAA/131Y	03/02/2025	54.63	37.03	12.87	19.85	<20.0	0.32	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
2	SL/24-25/02/MAA/146Z	06/02/2025	48.80	25.70	9.13	13.13	<20.0	0.38	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
3	SL/24-25/02/MAA/313a	10/02/2025	51.86	25.37	10.41	17.83	<20.0	0.33	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
4	SL/24-25/02/MAA/346a	13/02/2025	56.72	27.86	7.81	12.04	<20.0	0.28	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
5	SL/24-25/02/MAA/299a	17/02/2025	48.75	25.70	11.07	14.93	<20.0	0.37	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
6	SL/24-25/02/MAA/329a	20/02/2025	55.13	27.03	11.72	18.0	<20.0	0.34	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
7	SL/24-25/02/MAA/356AC	24/02/2025	44.23	22.46	9.77	10.14	<20.0	0.29	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
8	SL/24-25/02/MAA/362AA	27/02/2025	58.40	29.52	8.86	18.45	<20.0	0.41	<0.1	<1.0	<5.0	<5.0	<10.0	<0.1	
NAAQS Limits*			100	60	80	80	400	4	1	5	6	30	100	1	
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³ /hr	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	

*N.A.A.Q.S.-National Ambient Air Quality Standards.

**Annual arithmetic means of minimum 104 measurements in a year at particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

EQUIPMENTCALIBRATIONDETAILS:-

Sl. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
04-F-06	Flow Calibrator for DGM & Rotameter (Dry Gas Meter)	SATPL/MBR/04	PT0021	16/03/2024	22/03/2025
04-F-09	Flow Calibrator for DGM & Rotameter (Wet Wash)	SATPL/MBR/04	PT0013	16/03/2024	22/03/2025
0215	The Reading Orifice Flow Calibrator	SATPL/MBR/10022	PT0027	16/03/2024	17/03/2025
0118	Digital Barometric Pressure Indicator	SATPL/MBR/04	MB0018	18/02/2024	17/03/2025
0112070001	FLOWMETER (PM10)	SATPL/MBR/04	APM0013 04/09/20	15/03/2024	08/03/2025
0200010001	NO ₂ (PM10)	SATPL/MBR/04	APM0003 04/09/20	15/03/2024	28/03/2025
01000110001	Device Attachment Sample	SATPL/MBR/04	APM0003 04/09/20	15/03/2024	08/03/2025
01001	Digital Electronic Balance	SL/MBR/11	ACS/MS/COM 05/2 0001	18/03/2024	18/03/2025
04	Digital Spectrophotometer Model	SL/MBR/04		In-house Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

— End of Test Report —

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Worliwadi, MIDC, Pimpri-Chinchwad, Maharashtra 411019.

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

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

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

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Test Report No.	SL/24-25/03/MAA/09ab, 15w, 39ar, 53h, 96j, 119y, 129j, 137p, 174	T. R. Date	05/04/2025
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM-GOIA.		
Letter Ref/Date.	Ref. No. 4920076532 dated 08/03/2025		
Sampling Done By	SATPL Representative	Page No.	1 of 1
Month of Sampling	MARCH - 2025		

SAMPLING DETAILS – AMBIENT AIR MONITORING:

Sampling Location	Location - Navelim Village
Duration of Sampling [Hrs.]	24
Average Ambient Temperature [°C]	33
Average Relative Humidity [%]	68

ANALYSIS REPORT:

Sl. No.	Report No.	Date of Sampling	Parameters												
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃	CO***	PH	CH ₄	As	NI	O ₃ ***	NO ₃ P	
1	SL/24-25/03/MAA/09ab	03/03/2025	55.32	27.08	11.37	15.07	<14.08	0.21	<0.01	<0.1	<1.0	<0.1	<20.0	<0.1	
2	SL/24-25/03/MAA/15w	06/03/2025	61.96	31.19	7.81	15.13	<14.08	0.28	<0.01	<0.1	<1.0	<0.1	<20.0	<0.1	
3	SL/24-25/03/MAA/39ar	10/03/2025	53.83	22.46	11.67	17.33	<14.08	0.28	<0.01	<0.1	<1.0	<0.1	<20.0	<0.1	
4	SL/24-25/03/MAA/53h	13/03/2025	56.38	25.78	11.07	15.17	<14.08	0.26	<0.01	<0.1	<1.0	<0.1	<20.0	<0.1	
5	SL/24-25/03/MAA/96j	17/03/2025	52.34	24.12	9.12	19.29	<14.08	0.33	<0.01	<0.1	<1.0	<0.1	<20.0	<0.1	
6	SL/24-25/03/MAA/119y	20/03/2025	58.18	27.45	11.01	16.68	<14.08	0.29	<0.01	<0.1	<1.0	<0.1	<20.0	<0.1	
7	SL/24-25/03/MAA/129j	24/03/2025	52.23	25.17	10.42	13.83	<14.08	0.35	<0.01	<0.1	<1.0	<0.1	<20.0	<0.1	
8	SL/24-25/03/MAA/137p	27/03/2025	44.82	21.04	11.72	16.77	<14.08	0.29	<0.01	<0.1	<1.0	<0.1	<20.0	<0.1	
9	SL/24-25/03/MAA/174	31/03/2025	57.32	28.28	8.46	20.10	<14.08	0.34	<0.01	<0.1	<1.0	<0.1	<20.0	<0.1	
NAAQ5 Limits*			100	60	80	80	420	4	1	1	8	20	180	1	
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	µg/m ³	mg/m ³

*N.A.A.Q.5.-National Ambient Air Quality Standards.

**Annual arithmetic means of minimum104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

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

Page 1 of 2

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

Pune: Plot No. 9-24, H Block, Lal Topi Nagar, Morewell, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lal: 164,Shreeji Terrace Apt, Plot No. 53, Purna Nagar, Chinchwad, Pune: 411019

Vadodara: Plot No 1, Shah Ind. Park-1, Vadodara-Jevli, Laxmidapur. 391 775 Dist. Vadodra

Customer Care No: +919223247365 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

Shreeji: Water is always subject to improvement for better customer satisfaction. We welcome your feedback on pune_lab@shreeji-aqua.com



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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EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
090710210	FINE DUST SAMPLER (PM2.5)	SATPLAB/MAU/25	AFPM/2021-24/205-08	16/01/2024	16/03/2025
11121101	Fine Particulate Sampler	SATPLAB/TP2-EL/8WDSM	2001101/14	16/01/2024	17/01/2025
71121	SDA (PM10)	SATPLAB/MAU/20	AFPM/2021-24/205-08	16/01/2024	16/03/2025
111911B-07-0228	Respirable Dust Sampler	SATPLAB/ND1-OL/81A/AM	2001101/14	16/01/2024	17/01/2025
04961021	Gaseous Attachment Sample	SATPLAB/MAU/20	AFPM/2021-24/205-08	16/01/2024	16/03/2025
1011-010-2023	Gaseous Attachment Sample	SATPLAB/ND1-01/86/104	2001101/14	16/01/2024	17/01/2025
10017	Digital Electronic Balance	EL/5MM/41	ACI/456/DM 90/180013	16/01/2024	16/01/2025
032/PL/4576	Digital Electronic Balance	SATPLAB/MAU/18	PC/2500/1801/000	16/01/2024	16/01/2025
NA	Digital Spectrophotometer Model	EL/UV/1M	-----	In-house Calibration	
NA	Digital Spectrophotometer Model	SATPLAB/UV/180	-----	In-house Calibration	

The results relate to sample tested.

Page 2 of 2

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

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



SHREEJI AQUA TREATMENT PVT. LTD.

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

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● ENVIRONMENT ● FOOD ● ANIMAL FOOD & FEED ● MICROBIOLOGY

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL, Valid up to 15/06/2025.

Test Report No.	SL/24-25/03/MAA/09i, 15u, 39ap, 53f, 96h, 119w, 129b, 137n, 172	T. R. Date	05/04/2025
Customer Name and Address	M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONAANDNAVELIM, BICHOLIM-GOA.		
Letter Ref/ Date.	Ref. No. 4920076532 dated 08/03/2025		
Sampling Done By	SATPL Representative	Page No.	1 of 1
Month of Sampling	MARCH - 2025		

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Location-Near Amona Village
Duration of Sampling [Hrs.]	24
Average Ambient Temperature [°C]	33
Average Relative Humidity [%]	68

ANALYSIS REPORT:-

Sl. No.	Report No.	Date of Sampling	Parameters											
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃	CO****	Pb	Cr ₆	As	Hg	O ₃ ****	NO _x P
1	SL/24-25/03/MAA/09i	03/03/2025	62.20	29.52	9.77	14.18	<04.00	0.26	<0.01	<0.1	<1.0	<0.5	<0.01	<0.1
2	SL/24-25/03/MAA/15u	06/03/2025	56.12	27.03	12.37	12.04	<04.00	0.31	<0.01	<0.1	<1.0	<0.5	<0.01	<0.1
3	SL/24-25/03/MAA/39ap	10/03/2025	58.30	30.77	7.81	25.23	<04.00	0.28	<0.01	<0.1	<1.0	<0.5	<0.01	<0.1
4	SL/24-25/03/MAA/53f	13/03/2025	63.04	29.52	11.07	18.0	<04.00	0.27	<0.01	<0.1	<1.0	<0.5	<0.01	<0.1
5	SL/24-25/03/MAA/96h	17/03/2025	55.06	25.97	9.12	20.55	<04.00	0.31	<0.01	<0.1	<1.0	<0.5	<0.01	<0.1
6	SL/24-25/03/MAA/119w	20/03/2025	60.18	28.28	11.87	15.89	<04.00	0.28	<0.01	<0.1	<1.0	<0.5	<0.01	<0.1
7	SL/24-25/03/MAA/129b	24/03/2025	51.17	18.29	10.42	16.86	<04.00	0.25	<0.01	<0.1	<1.0	<0.5	<0.01	<0.1
8	SL/24-25/03/MAA/137n	27/03/2025	54.61	26.61	11.73	13.03	<04.00	0.36	<0.01	<0.1	<1.0	<0.5	<0.01	<0.1
9	SL/24-25/03/MAA/172	31/03/2025	60.42	28.28	8.46	19.05	<04.00	0.27	<0.01	<0.1	<1.0	<0.5	<0.01	<0.1
NAAQS Units*			100	60	80	80	400	4	1	5	0	20	180	1
Units			ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	mg/m³	ug/m³	ug/m³	mg/m³	mg/m³	ug/m³	ug/m³

*N.A.A.Q.S.-National Ambient Air Quality Standards.

**Annual arithmetic means of minimum 104 measurements in a year at particular site taken twice a week 24 hourly at uniform intervals.

***Hourly Value

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

Page 1 of 2

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

Pune: Plot No. 9-24, H Block, Lal Topi Nagar, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lah: 16A,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune-411019

Vadodara: Plot No. 1, Shah Ind. Park-1, VadoDara-Savli, Laxmiapuram. 391 725 Dist. Vadodra

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

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



SHREEJI AQUA TREATMENT PVT. LTD.

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

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
00120780021	PH/DO/TAM/PLU/ET/PMG/33	SATPL/MB/MB/25	4/PM/2023-24/205-09	18/03/2024	18/03/2025
0111111000	Fine Particulate Sampler	SATPL/MB/PL/01/MB/VSAM	04/01/2023/05	18-03-2025	17-03-2026
00000700020	ROD (PM10)	SATPL/MB/MB/25	4/PM/2023-24/205-09	18/03/2024	18/03/2025
11158118-07-00020	Respirable Dust Sampler	SATPL/MB/ROD-01/MB/PM	04/01/2023/04	18-03-2025	17-03-2026
00000700020	Respirable Attachment Sampler	SATPL/MB/MB/25	4/PM/2023-24/205-09	18/03/2024	18/03/2025
0111-01C-2023	Respirable Attachment Sampler	SATPL/MB/ROD-01-NEW/SAM	04/01/2023/14	18-03-2025	17-03-2026
03017	Digital Electronic Balance	SL/UM/BAI	4/04/2023/CM-04/0007	18/03/2024	18/03/2025
0307014578	Digital Electronic Balance	SATPL/MB/PL/10	PC/1503/1801/005	18-03-2025	14-03-2026
NA	Digital Spectrophotometer Model	SL/UM/BA		In-house Calibration	
NA	Digital Spectrophotometer Model	SATPL/MB/PL/10		In-house Calibration	

The results relate to sample tested.

Page 2 of 2

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

—End of Test Report—

Annexure III
Dumps covered with geotextile and Pre and post monsoon ground water monitoring reports

Dumps covered with geotextile





Pune : 31A, Shreeji Complex, Nehru Nagar, Pimpri, Pune- 411 018
 Vadodra : Plot No.1, Shah Ind. Park 1, Vadodra-Savli, Landepus, 391 775 Dist. Vadodra
 Lab : 184, Shreeji Terrace Apt. Flat No. 53, Purna Nagar, Chikhali, Pune 411019
 Customer Care No:- +919225247365
 Web : www.shreejaqua.com • Email: info@shreejaqua.com

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India

TEST REPORT

20/05/2024

Sample / Report No.	SL/24-25/05/MFW/1850				
Name of Customer	M/s. YEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMDNA,P.O.MARCELA,BICHOLIM – GOA,				
Order / Reference	As per TRF Dated 15/05/2024				
Sample declaration as provided by customer :					
Nature of Sample	Navelim - Sanjay Naik Well Water				
Batch No.	NA				
Sample Drawn by	SATPL Representative on 15/05/2024	Sample Received On	16/05/2024		
Start of Analysis	16/05/2024	End of Analysis	20/05/2024		
Sample Container	Plastic Can	Sample Quantity	2 lit		
Sampling Procedure	IS 3025 (Part 1) & IS1622				
Limits	As Per IS-10500:2012 Standards				
Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source		
Chemical Testing					
Colour	<1.0	5.0 Max.	15.0 Max.	Hazen	IS 3025 (Part 4):1983 R 2021
Turbidity	0.21	1.0 Max.	5.0 Max.	NTU	IS 3025 (Part 10):1984 R 2023
pH	7.04	6.5 – 8.5	No Relaxation	-	IS 3025 (Part 11): 2022
Total Dissolved Solids	105.0	500.0 Max.	2000.0 Max.	mg/l	IS 3025 (Part 16): 2023
Chlorides	19.99	250.0 Max.	1000.0 Max.	mg/l	IS 3025 (Part 32):1988 R 2019
Manganese	<0.01	0.10 Max.	0.30 Max.	mg/l	IS 3025 (Part 2): 2004 R2019
Nitrate	1.18	45.0 Max.	No Relaxation	mg/l	IS 3025 (Part 34):1988 R 2019
Sulphate	3.95	200.0 Max.	400.0 Max.	mg/l	IS 3025 (Part 24/Sec 1):2022
Total Hardness as CaCO ₃	44	200.0 Max.	500.0 Max.	mg/l	IS 3025 (Part 21):2009 R2019
Calcium Hardness	30.0	Not Specified		mg/l	IS 3025 (Part 40):1991 R 2019
Magnesium Hardness	14.0	Not Specified		mg/l	IS 3025: Part 46: R2023

REMARK: Reference to above testing parameters, given Well Water sample is within the prescribed limit.

Disclaimer: Information supplied by customers represented in italic font

Verified By,

Sapachi
Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
(Authorized Signatory)



|| Shreeji ||

SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

An ISO 9001:2015
Certified Company
ISO 45001 : 2018

Pune : 31A, Shreeji Complex, Kefru Nagar, Pimpri, Pune-411 018
 Vadodra : Plot No.1, Shah Ind. Park-1, Vadodra-Sestri, Lamdapura-391 775 Dist. Vadodra
 Lab : 164, Shreeji Terrace Apt. Plot No. 55, Furia Nagar, Chikhali, Pune-411019
 Customer Care No.: +919225247305
 Web : www.shreeji-aqua.com • Email: info@shreeji-aqua.com

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India

TEST REPORT

20/05/2024

Sample / Report No.	SL/24-25/05/MFW/1350				
Name of Customer	M/L VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMDONA,P.O.MARCELA,BICHOLIM - GOA.				
Order / Reference	As per TRF Dated 15/05/2024				
Sample declaration as provided by customer :					
Nature of Sample	Navelim - Sanjay Nalk Well Water				
Batch No.	NA				
Sample Drawn by	SATPL Representative on 15/05/2024	Sample Received On	16/05/2024		
Start of Analysis	16/05/2024	End of Analysis	20/05/2024		
Sample Container	Plastic Can	Sample Quantity	2 lit.		
Sampling Procedure	IS 3025 (Part 1) & IS1622				
Limits	As Per IS 10500:2012 Standards				
Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source		
Chemical Testing					
Dissolved Iron	<0.1	1.0 Max.	No Relaxation	mg/l	IS 3025 (Part 2): 2004 82019
Electrical Conductivity	159	Not Specified		µs/cm	APHA, 24 th Edition 2023/2510-B
Chemical Oxygen Demand (COD)	<4.00	Not Specified		mg/l	APHA, 24 th Edition 2023/ 5220-C
Bio-Chemical Oxygen Demand (BOD)27°C for 3 Days	<1.00	Not Specified		mg/l	IS 3025 (Part 44): 2023
Total Suspended Solids (TSS)	6.0	Not Specified		mg/l	APHA, 24th Edition 2023/ 2540-D
Oil & Grease	<2.0	Not Specified		mg/l	IS 3025 (Part 39): 2021
Phosphate	<0.001	Not Specified		mg/l	APHA, 24 th Edition 2023/4500-P-D

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

Verified By,
[Signature]
Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.

[Signature]
Managing Director
(Authorized Signatory)

-----End Of Test Report-----

The results relate to sample tested.



|| Shreeji ||

SHREEJI AQUA TREATMENT PVT. LTD.

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An ISO 9001:2015
Certified Company
ISO 45001 :2018

Place : 21A, Shreeji Complex, Nehru Nagar, Pimpri, Pune-411 018
 Vedadara : Plot No.1, Shah Ind. Park-1, Nandodara-Savli, Lamdapura, 391 275 Dist. Vadodra
 Lab : 16A, Shreeji Service Apt. Plot No. 53, Purna Nagar, Chikhali, Pune-411019
 Customer Care No.: +919225247365
 Web : www.shreeji-aqua.com • Email: info@shreeji-aqua.com

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India

TEST REPORT

20/05/2024

Sample / Report No.	SL/24-25/05/MFW/135N				
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM - GOA.				
Order / Reference	As per TRF Dated 15/05/2024				
Sample declaration as provided by customer :					
Nature of Sample	Amona-Sondesh Naik Well Water				
Batch No.	NA				
Sample Drawn by	SATPL Representative on 15/05/2024	Sample Received On	15/05/2024		
Start of Analysis	16/05/2024	End of Analysis	20/05/2024		
Sample Container	Plastic Can	Sample Quantity	2 lit		
Sampling Procedure	IS 3025 (Part 1) & IS1622				
Limits	As Per IS 10500:2012 Standards				
Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source		
Chemical Testing					
Colour	<1.0	5.0 Max.	15.0 Max.	Hazen	IS 3025 (Part 4):1983 R 2021
Turbidity	0.20	1.0 Max.	5.0 Max.	NTU	IS 3025 (Part 10):1984 R 2023
pH	7.10	6.5 - 8.5	No Relaxation	-	IS 3025 (Part 11): 2022
Total Dissolved Solids	98.0	500.0 Max.	2000.0 Max.	mg/L	IS 3025 (Part 16): 2023
Chlorides	15.00	250.0 Max.	1000.0 Max.	mg/L	IS 3025 (Part 32):1988 R 2019
Manganese	0.01	0.10 Max.	0.30 Max.	mg/L	IS 3025 (Part 2): 2004 R2019
Nitrate	1.04	45.0 Max.	No Relaxation	mg/L	IS 3025 (Part 34):1988 R 2019
Sulphate	3.71	200.0 Max.	400.0 Max.	mg/L	IS 3025 (Part 24/Sec 1):2022
Total Hardness as CaCO ₃	48.0	200.0 Max.	600.0 Max.	mg/L	IS 3025 (Part 23):2009 R2019
Calcium Hardness	28.0	Not Specified		mg/L	IS 3025 (Part 40):1991 R 2019
Magnesium Hardness	22.0	Not Specified		mg/L	IS 3025: Part 46; R2023

REMARK: Reference to above testing parameters, given Well Water sample is within the prescribed limit.

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

Verified By,

Sapre V

Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.

SJM

Managing Director
(Authorized Signatory)



|| Shreeji ||

SHREEJI AQUA TREATMENT PVT. LTD.

Environmental Solutions Under One Roof




AN ISO 9001:2015
Certified Company
ISO 43001 : 2018

Pune : 21A, Shreeji Complex, Nehru Nagar, Pimpri, Pune: 411 018
Vadodra : Plot No.1, Shakti Ind. Park-1, Vadodra-Savli, Landapur, 391 779 Dist. Vadodra
Lab : 18A, Shreeji Terrace Apt. Flat No. 53, Purna Nagar, Chikhali, Pune: 411019
Customer Care No:- +919225247365
Web : www.shreeji-aqua.com • Email: info@shreeji-aqua.com

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India

TEST REPORT

20/05/2024

Sample / Report No.	SL/24-25/05/MFW/135N				
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIUM - GOA.				
Order / Reference	As per TRF Dated 15/05/2024				
Sample declaration as provided by customer :					
Nature of Sample	Amawa-Sandesh Nalk Well Water				
Batch No.	NA				
Sample Drawn by	SATPL Representative on 15/05/2024		Sample Received On	16/05/2024	
Start of Analysis	16/05/2024		End of Analysis	20/05/2024	
Sample Container	Plastic Can		Sample Quantity	2 lit	
Sampling Procedure	IS 3025 (Part 1) & IS1522				
Limits	As Per IS 10500:2012 Standards				
Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source		
Chemical Testing					
Dissolved Iron	<0.1	1.0 Max.	No Relaxation	mg/l	IS 3025 (Part 2): 2004 R2019
Electrical Conductivity	151	Not Specified		µs/cm	APHA, 24 th Edition 2023/2510-B
Chemical Oxygen Demand (COD)	<4.00	Not Specified		mg/l	APHA, 24 th Edition 2023/ 5220-C
Bio Chemical Oxygen Demand (BOD)27°C for 3 Days	<1.00	Not Specified		mg/L	IS 3025 (Part 44): 2023
Total Suspended Solids (TSS)	8	Not Specified		mg/l	APHA, 24th Edition 2023/ 2540-D
Oil & Grease	<2.0	Not Specified		mg/L	IS 3025 (Part 39): 2021
Phosphates	<0.001	Not Specified		mg/L	APHA, 24 th Edition 2023/4500-P-D
Disclaimer- Information supplied by customers represented in <i>italic font</i>					
Verified By,  Sr. Analyst				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 : 21A, Shreeji Complex, Nehru Nagar, Pimpri, Pune-411 018
 Vadodara : Plot No.1, Shah Ind. Park-1, Vadodara-Saifi, Lamdapura, 391 771 Dist. Vadodara
 Lab : 164, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune-411019
 Customer Care No. +919225247365
 Web : www.shreeji-aqua.com • Email: info@shreeji-aqua.com

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India

TEST REPORT

20/05/2024

Sample / Report No.	SL/24-25/05/MPW/135M				
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM - GOA.				
Order / Reference	As per TRF Dated 15/05/2024				
Sample declaration as provided by customer :					
Nature of Sample	Main-Digamber Naik Well Water				
Batch No.	NA				
Sample Drawn by	SATPL Representative on 15/05/2024	Sample Received On	16/05/2024		
Start of Analysis	16/05/2024	End of Analysis	20/05/2024		
Sample Container	Plastic Can	Sample Quantity	2 lt		
Sampling Procedure	IS 3025 (Part 1) & IS1622				
Limits	As Per IS 10500:2012 Standards				
Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source		

Chemical Testing					
Colour	<1.0	5.0 Max.	15.0 Max.	Hazen	IS 3025 (Part 4):1983 R 2021
Turbidity	0.24	1.0 Max.	5.0 Max.	NTU	IS 3025 (Part 10):1984 R 2023
pH	7.19	6.5 - 8.5	No Relaxation	-	IS 3025 (Part 11): 2022
Total Dissolved Solids	86	500.0 Max.	2000.0 Max.	mg/L	IS 3025 (Part 16): 2023
Chlorides	11.0	250.0 Max.	1000.0 Max.	mg/L	IS 3025 (Part 32):1988 R 2019
Manganese	<0.01	0.10 Max.	0.30 Max.	mg/L	IS 3025 (Part 2): 2004 R2019
Nitrate	0.18	45.0 Max.	No Relaxation	mg/L	IS 3025 (Part 34):1988 R 2019
Sulphate	2.66	200.0 Max.	400.0 Max.	mg/L	IS 3025 (Part 24/Sec 1):2022
Total Hardness as CaCO ₃	34	200.0 Max.	600.0 Max.	mg/L	IS 3025 (Part 21):2009 R2019
Calcium Hardness	20.0	Not Specified		mg/L	IS 3025 (Part 40):1991 R 2019
Magnesium Hardness	10.0	Not Specified		mg/L	IS 3025: Part 40: R2023

REMARK: Reference to above testing parameters, given Well Water sample is within the prescribed limit.

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

Verified By
[Signature]
Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.

[Signature]
Managing Director
(Authorized Signatory)



|| Shreeji ||

SHREEJI AQUA TREATMENT PVT. LTD.

Specialized Environmental Solutions Under One Roof

An ISO 9001:2015
Certified Company
ISO 45001 : 2018

Pune : 21A, Shreeji Complex, Nehru Nagar, Pimpri, Pune-411 018
 Vadodara : Plot No 1, Shah Int. Park-I, Vadodara Savli, Lamdapura, 391 775 Dist. Vadodara
 Lab : 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune-411019
 Customer Care No: +912225247365
 Web : www.shreeji-aqua.com • Email: info@shreeji-aqua.com

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India

TEST REPORT						20/05/2024	
Sample / Report No.		SL/24-25/05/MPW/135M					
Name of Customer		M/s. VEDANTA LIMITED (PIG IRON PLANT)					
Address of Customer		SURVEY NO.30(PART)41,42/1,27(PART) AMONA, P.O.MARCELA,BICHOLIM – GOA.					
Order / Reference		As per TRF Dated 15/05/2024					
Sample declaration as provided by customer :							
Nature of Sample		Molno-Digamber Naik Well Water					
Batch No.		NA					
Sample Drawn by		SATPL Representative on 15/05/2024		Sample Received On		15/05/2024	
Start of Analysis		16/05/2024		End of Analysis		20/05/2024	
Sample Container		Plastic Can		Sample Quantity		2 lit	
Sampling Procedure		IS 3025 (Part 1) & IS1023					
Limits		As Per IS 10500:2012 Standards					
Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method		
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source				
Chemical Testing							
Dissolved Iron	<0.1	1.0 Max.	No Relaxation	mg/l	IS 3025 (Part 2): 2004 R2019		
Electrical Conductivity	158	Not Specified		µs/cm	APHA, 24 th Edition 2023/2510-B		
Chemical Oxygen Demand (COD)	<4.00	Not Specified		mg/L	APHA, 24 th Edition 2023/ 5220-C		
Bio Chemical Oxygen Demand (BOD)@27°C for 3 Days	<1.00	Not Specified		mg/l	IS 3025 (Part 44): 2023		
Total Suspended Solids (TSS)	4	Not Specified		mg/l	APHA, 24th Edition 2023/ 2540-D		
Oil & Grease	<2.0	Not Specified		mg/l	IS 3025 (Part 39): 2021		
Phosphate	<0.001	Not Specified		mg/L	APHA, 24 th Edition 2023/4500-P-D		
<i>Disclaimer- Information supplied by customers represented in italic font</i>							
Verified By,  Sr. Analyst				For Shreeji Aqua Treatment Pvt. Ltd.  Managing Director (Authorized Signatory)			

— End Of Test Report —

The results relate to sample tested.



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

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ULR No.: TC138772400010602F

TEST REPORT

29/10/2024

Sample / Report No.	SL/24-25/10/MFW/105U		
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)		
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM - GOA.		
Order / Reference	As Per TRF dated 24/10/2024		
Sample declaration as provided by customer :			
Nature of Sample	Navelim - Sanjay Naik Well Water		
Batch No.	NA		
Sample Drawn by	SATPL on 24/10/2024	Sample Received On	25/10/2024
Start of Analysis	25/10/2024	End of Analysis	29/10/2024
Sample Container	Plastic con	Sample Quantity	02 lit
Sampling Procedure	IS 3025 (Part 1)		
Limits	As Per IS 10500:2012 Standards		

Chemical Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Colour	<1.0	5.0 Max	Hazen	IS 3025 (Part 4) :1983 R 2021
2	pH Value	7.17	6.5-8.5	---	IS 3025 (Part 11):2022
3	Turbidity	0.23	1.0 Max	NTU	IS 3025 (Part 10) :1984 R 2023
4	Total Dissolved Solids	85.0	500.0 Max	mg/Lit	IS 3025 (Part 16): 2023
5	Sulphate as SO ₄	2.58	200.0 Max	mg/Lit	IS 3025: (Part 24/Sec 1) :R2022
6	Total Hardness as CaCO ₃	38.0	200.0 Max	mg/Lit	IS 3025 (Part 21): 2009 R 2019
7	Chloride as Cl	15.00	250.0 Max	mg/Lit	IS 3025 (Part 32): 1988 R 2019
8	Manganese as Mn	<0.01	0.1 Max	mg/Lit	IS 3025 (Part 2): 2004 R2019
9	Nitrate as NO ₃	1.06	45.0 Max	mg/Lit	IS 3025 (Part 34)-1988 R 2019
10	Calcium Hardness	22.0	NS	mg/Lit	IS 3025 (Part 40):1991 R 2019
11	Magnesium Hardness	16.0	NS	mg/Lit	IS 3025: Part 46:R2023

Note: NA-Not Applicable, NTU: Nephelometric Turbidity unit, NS- Not Specified.

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

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

Verified By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
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-26, H Block, Lal Topi Nagar, Morewadi, MDC, Piripri-Chinchwad, Maharashtra-411018.

Lab: 16A,Shreeji Terrace Apt, Plot No. 53, Purna Nagar, Chinchali, Pune: 411019

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

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

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TEST REPORT						29/10/2024
Sample / Report No.		SL/24-25/10/MFW/105U				
Name of Customer		M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer		SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM - GOA.				
Order / Reference		As Per TRF dated 24/10/2024				
Sample declaration as provided by customer :						
Nature of Sample		Navelim - Sanjay Naik Well Water				
Batch No.		NA				
Sample Drawn by		SATPL on 24/10/2024	Sample Received On	25/10/2024		
Start of Analysis		25/10/2024	End of Analysis	29/10/2024		
Sample Container		Plastic can	Sample Quantity	02 lit		
Sampling Procedure		IS 3025 (Part 1)				
Limits		As Per IS 10500:2012 Standards				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
12	Dissolved Iron	<0.1	1.0 Max.	mg/Lit	IS 3025 (Part 2): 2004 R2019	
13	Conductivity	138	NS	µs/cm	APHA, 24 th Edition 2023/2510-B	
14	Chemical Oxygen Demand (COD)	<3.0	NS	mg/Lit	APHA, 24 th Edition 2023/ 5220-C	
15	Bio Chemical Oxygen Demand @ 27°C for 3 Days	<1.0	NS	mg/Lit	IS 3025 (Part 44):2023	
16	Total Suspended Solids (TSS)	8.00	NS	mg/Lit	APHA, 24 th Edition 2023/ 2540-D	
17	Oil & Grease	<2.0	NS	mg/Lit	IS 3025 (Part 39):2021	
18	Phosphates	<0.001	NS	mg/Lit	APHA 24th edition: 4500P- D: 2023	
Note: NA-Not Applicable. NS- Not Specified.						
Disclaimer: Information supplied by customers represented in italic font						
Verified By,				For Shreeji Aqua Treatment Pvt.Ltd.		
						
Sr.Analyst		Quality Manager 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, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184,Shreeji Terrace Apt. Plot No. 33, Purma 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@shreejaqua.com Web: www.shreejaqua.com

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 ULR No.: TC138772400010601F

TEST REPORT

29/10/2024

Sample / Report No. **SL/24-25/10/MPW/105T**
 Name of Customer **M/s. VEDANTA LIMITED (PIG IRON PLANT)**
 Address of Customer **SURVEY NO.30(PART)41,42/1,27(PART) AMONA, P.O. MARCELA, BICHOLIM - GOA,**
 Order / Reference **As Per TRF dated 24/10/2024**

Sample declaration as provided by customer :

Nature of Sample **Amona-Sandesh Naik Well Water**
 Batch No. **NA**

Sample Drawn by **SATPL on 24/10/2024** Sample Received On **25/10/2024**
 Start of Analysis **25/10/2024** End of Analysis **29/10/2024**
 Sample Container **Plastic can** Sample Quantity **02 lit**
 Sampling Procedure **IS 3025 (Part 1)**

Limits **As Per IS 10500:2012 Standards**

Chemical Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Colour	<1.0	5.0 Max	Hazen	IS 3025 (Part 4) :1983 R 2021
2	pH Value	7.01	6.5-8.5	---	IS 3025 (Part 11):2022
3	Turbidity	0.19	1.0 Max	NTU	IS 3025 (Part 10) :1984 R 2023
4	Total Dissolved Solids	80.0	500.0 Max	mg/Lit	IS 3025 (Part 16): 2023
5	Sulphate as SO ₄	2.10	200.0 Max	mg/Lit	IS 3025: (Part 24/Sec 1) :R2022
6	Total Hardness as CaCO ₃	42.0	200.0 Max	mg/Lit	IS 3025 (Part 21): 2009 R 2019
7	Chloride as Cl	12.0	250.0 Max	mg/Lit	IS 3025 (Part 32): 1988 R 2019
8	Manganese as Mn	<0.01	0.1 Max	mg/Lit	IS 3025 (Part 2): 2004 R2019
9	Nitrate as NO ₃	1.11	45.0 Max	mg/Lit	IS 3025 (Part 34):1988 R 2019
10	Calcium Hardness	30.0	NS	mg/Lit	IS 3025 (Part 40):1991 R 2019
11	Magnesium Hardness	12.0	NS	mg/Lit	IS 3025: Part 46;R2023

Note: NA-Not Applicable. NTU; Nephelometric Turbidity unit. NS- Not Specified.

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

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

Verified By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
 Authorized Signatory

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

Page 1 of 2



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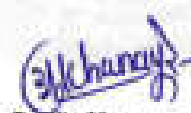
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TEST REPORT						29/10/2024
Sample / Report No.		SL/24-25/10/MFW/105T				
Name of Customer		M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer		SURVEY NO.30(PART)41,42/1,27(PART) AMONA, P.O. MARCELA, BICHOLIM – GOA.				
Order / Reference		As Per TRF dated 24/10/2024				
Sample declaration as provided by customer :						
Nature of Sample		Amono-Sandesh Naik Well Water				
Batch No.		NA				
Sample Drawn by		SATPL on 24/10/2024	Sample Received On		25/10/2024	
Start of Analysis		25/10/2024	End of Analysis		29/10/2024	
Sample Container		Plastic can	Sample Quantity		02 lit	
Sampling Procedure		IS 3025 (Part 1)				
Limits		As Per IS 10500:2012 Standards				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
12	Dissolved Iron	<0.1	1.0 Max.	mg/Lit	IS 3025 (Part 2): 2004 R2019	
13	Conductivity	151	NS	µs/cm	APHA, 24 th Edition 2023/2510-B	
14	Chemical Oxygen Demand (COD)	<3.0	NS	mg/Lit	APHA, 24 th Edition 2023/ 5220-C	
15	Bio Chemical Oxygen Demand @ 27°C for 3 Days	<1.0	NS	mg/Lit	IS 3025 (Part 44):2023	
16	Total Suspended Solids (TSS)	8.0	NS	mg/Lit	APHA, 24 th Edition 2023/ 2540-D	
17	Oil & Grease	<2.0	NS	mg/Lit	IS 3025 (Part 39):2021	
18	Phosphates	<0.001	NS	mg/Lit	APHA 24th edition: 4500P- D: 2023	
Note: NA-Not Applicable. NS- Not Specified.						
Disclaimer: <i>Information supplied by customers represented in italic font</i>						
Verified By,				For Shreeji Aqua Treatment Pvt.Ltd.		
Sr.Analyst						
				Quality Manager 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, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 164,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.: +919325347365 Email: info@shreejaqua.com Web: www.shreejaqua.com

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SHREEJI AQUA TREATMENT PVT. LTD.

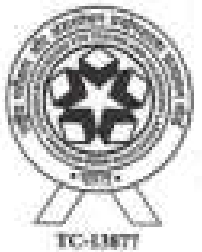
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ULR No.: TC138772400010600F

TEST REPORT

29/10/2024

Sample / Report No.	SL/24-25/10/MFW/1055
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM - GOA.
Order / Reference	As Per TRF dated 24/10/2024

Sample declaration as provided by customer :

Nature of Sample	Main-Digamber Naik Well Water		
Batch No.	NA		
Sample Drawn by	SATPL on 24/10/2024	Sample Received On	25/10/2024
Start of Analysis	25/10/2024	End of Analysis	29/10/2024
Sample Container	Plastic can	Sample Quantity	02 lit
Sampling Procedure	IS 3025 (Part 1)		
Limits	As Per IS 10500:2012 Standards		

Chemical Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Colour	<1.0	5.0 Max	Hazen	IS 3025 (Part 4) :1983 R 2021
2	pH Value	7.21	6.5-8.5	---	IS 3025 (Part 11):2022
3	Turbidity	0.26	1.0 Max	NTU	IS 3025 (Part 10) :1984 R 2023
4	Total Dissolved Solids	90.0	500.0 Max	mg/Lit	IS 3025 (Part 16): 2023
5	Sulphate as SO ₄	2.34	200.0 Max	mg/Lit	IS 3025: (Part 24/Sec 1) :R2022
6	Total Hardness as CaCO ₃	40.0	200.0 Max	mg/Lit	IS 3025 (Part 21): 2009 R 2019
7	Chloride as Cl	13.0	250.0 Max	mg/Lit	IS 3025 (Part 32): 1988 R 2019
8	Manganese as Mn	<0.01	0.1 Max	mg/Lit	IS 3025 (Part 2): 2004 R2019
9	Nitrate as NO ₃	0.11	45.0 Max	mg/Lit	IS 3025 (Part 34):1988 R 2019
10	Calcium Hardness	26.0	NS	mg/Lit	IS 3025 (Part 40):1991 R 2019
11	Magnesium Hardness	14.0	NS	mg/Lit	IS 3025: Part 46:R2023

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

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

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

Verified By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
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, Moteewadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

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

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Sevli, Lamdapura, 391 773 Dist. Vadodra

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

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TEST REPORT						29/10/2024
Sample / Report No.		SL/24-25/10/MFW/1055				
Name of Customer		M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer		SURVEY NO.30(PART)41,42/1,27(PART) AMDNA,P.O.MARCELA,BICHOLIM - GOA.				
Order / Reference		As Per TRF dated 24/10/2024				
Sample declaration as provided by customer :						
Nature of Sample		Molna-Digamber Naik Well Water				
Batch No.		NA				
Sample Drawn by		SATPL on 24/10/2024	Sample Received On	25/10/2024		
Start of Analysis		25/10/2024	End of Analysis	29/10/2024		
Sample Container		Plastic con	Sample Quantity	02 lit		
Sampling Procedure		IS 3025 (Part 1)				
Limits		As Per IS 10500:2012 Standards				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
12	Dissolved Iron	<0.1	1.0 Max.	mg/Lit	IS 3025 (Part 2): 2004 R2019	
13	Conductivity	140	NS	µs/cm	APHA, 24 th Edition 2023/2510-B	
14	Chemical Oxygen Demand (COD)	<3.0	NS	mg/Lit	APHA, 24 th Edition 2023/ 5220-C	
15	Bio Chemical Oxygen Demand @ 27°C for 3 Days	<1.0	NS	mg/Lit	IS 3025 (Part 44):2023	
16	Total Suspended Solids (TSS)	10.0	NS	mg/Lit	APHA, 24 th Edition 2023/ 2540-D	
17	Oil & Grease	<2.0	NS	mg/Lit	IS 3025 (Part 39):2021	
18	Phosphates	<0.001	NS	mg/Lit	APHA 24th edition: 4500P- D: 2023	
Note: NA-Not Applicable. NS- Not Specified.						
Disclaimer: 'Information supplied by customers represented in italic font'						
Verified By,				For Shreeji Aqua Treatment Pvt.Ltd.		
						
Sr. Analyst		Quality Manager 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, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra-411018.

Lab: 1&4-Shreeji Terrace Apt. Plot No. 33, Purna Nagar, Chikhali, Pune-411019

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

Customer Care No.: +918225347385 Email: info@shreeji aqua.com Web: www.shreeji aqua.com

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Annexure IV
Water withdrawal permissions



GOVERNMENT OF GOA
OFFICE OF THE EXECUTIVE ENGINEER
WORKS DIVISION I
WATER RESOURCES DEPARTMENT
1ST FLOOR, NR. POLICE STATION,
SINCHAI BHAVAN, PORVORIM GOA

No. WRD/WDII/ASW/F.15/2025-26/ 13

Date: 04 / 04 / 2025

To,
M/s Vedanta Ltd,
Sesa Ghor,
20 EDC Complex,
Patto Panaji-Goa.

Sub: Renewal of N.O.C for water drawal from Valvonti river at
Virdi, Sanquelim, for Vedanta Ltd. Amona & Navelim Plant.
Ref No: WRD/WD VI/SD-1/2023-24/ F.50/434 dated: 17/02/2025.

Sir,

With reference to your application dated 22/02/2024, the N.O.C for drawal of water from Valvonti river at Virdi to the extent of 10,000.00 cum/day is renewed for further period with following conditions:

1. Measuring devices shall be fixed by the applicant at their own cost.
2. The company should pay for the raw water at prevailing rate as fixed by Government.
3. Before releasing the residual water/concentrate, following precautions are to be taken:
 - a) The residue to the desalinated process should be treated and let out into the river so that the marine life and ecology and other environmental parameters are not affected.
 - b) As abundant precaution, the residual water should be mixed with water to cool down the concentrate to normal temperature.
 - c) The residual water should be released during of start of low tide.
 - d) To dilute the residual concentrate to bring it back to normal sea salinity of 30,000g/lit before releasing into the canal.
 - e) If there is any adverse effect on the environmental/marine life or any other reason, Government reserves the right to withdrawal N.O.C. without prejudice.
4. Validity of N.O.C. is further extended upto 19th April, 2026.

Yours Faithfully,


EXECUTIVE ENGINEER &
CANAL OFFICER (N)

Copy to:-

1. The Chief Engineer, W.R.D, Sinchai Bhavan, Alto Porvorim-Goa.
2. The Superintending Engineer, Circle I, W.R.D, Sinchai Bhavan, Alto Porvorim-Goa.
3. The Executive Engineer, W.D, VI, W.R.D., Bicholim-Goa.



GOVERNMENT OF GOA
OFFICE OF THE EXECUTIVE ENGINEER
WORKS DIVISION I
WATER RESOURCES DEPARTMENT
1st FLOOR, NR. POLICE STATION,
SINCHAI BHAVAN, PORVORIM GOA

Date: 06 / 03 / 2025

No. WRD/WDI/ASWIF.15/2024-25/433

To
M/s Vidanta Ltd,
Sesa Ghor,
20 EDC Complex,
Patio Panaji-Goa.

Sub: Renewal of N.O.C for water drawal from Mandovi river at
Amona, for 30 MW waste heat recovery Power plant.
Ref: No. WRD/WDVI/SD-I/2024-25/F.50/426 dtd: 06/02/2025

Sir,

With reference to your application dated 22/01/2025, the N.O.C for drawal of water from Mandovi river at Amona to the extent of 7000.00m³/day is renewed for further period with following conditions:

1. The drawal of water to the plant shall not exceed the sanctioned quantity.
2. Measuring devices shall be fixed by the applicant at their own cost.
3. The company should pay for the raw water at prevailing rate as fixed by Government.
4. Before releasing the residual water/concentrate, following precautions are to be taken:
 - a) The residue to the desalinated process should be treated and let out into the river so that the marine life and ecology and other environmental parameters are not affected.
 - b) As abundant precaution, the residual water should be mixed with water to cool down the concentrate to normal temperature.
 - c) The residual water should be released during of start of low tide.
 - d) To dilute the residual concentrate to bring it back to normal sea salinity of 30,000g/lit before releasing into the canal.
 - e) If there is any adverse effect on the environmental/marine life or any other reason, Government reserves the right to withdraw N.O.C. without prejudice.
5. Validity of N.O.C. is further extended upto 21st February, 2026.

Yours Faithfully,


EXECUTIVE ENGINEER-I &
CANAL OFFICER (N)

Copy to:-

1. The Chief Engineer, W.R.D, Sinchai Bhavan, Alto Porvorim-Goa.
2. The Superintending Engineer, Circle I, W.R.D, Sinchai Bhavan, Alto Porvorim-Goa.
3. The Executive Engineer, Works Division-VI WRD, Bicholim Goa.

Annexure V
Mitigation measures

MITIGATION MEASURES

Baghouse systems



Windshields along the boundaries

MITIGATION MEASURES



Windshields with top sprinklers



MITIGATION MEASURES

Fogging systems



Rain guns and fog cannon



Closed conveyors



MITIGATION MEASURES

Covering transportation trucks



Speed limit board



Wheel wash system at exit



Road sweeping machine



MITIGATION MEASURES

Closed raw material shed

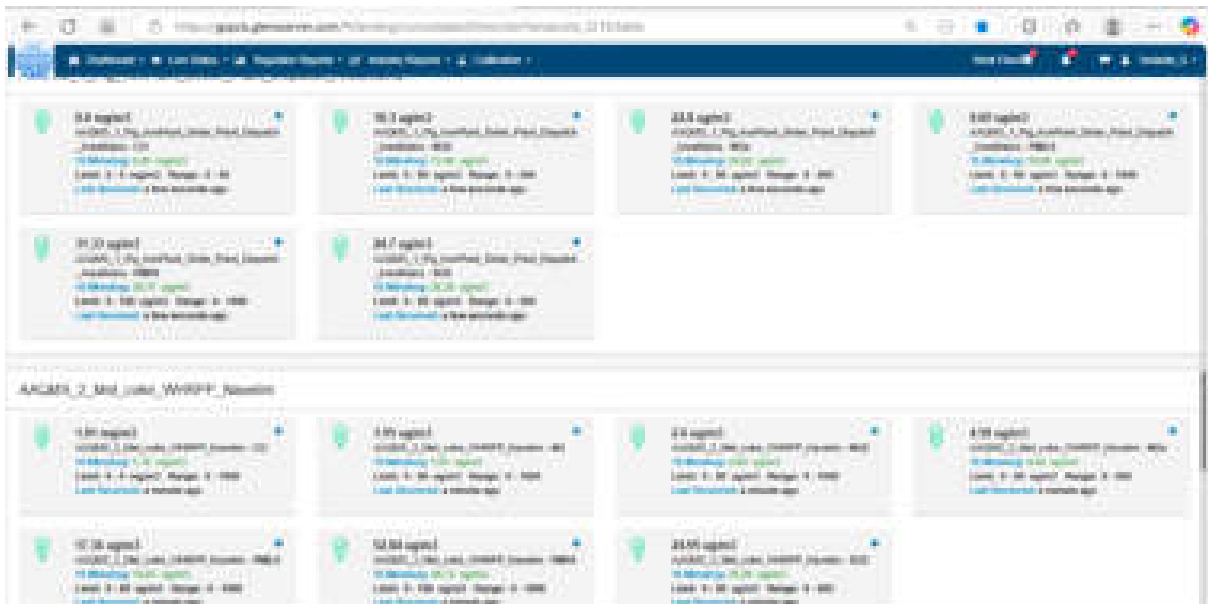
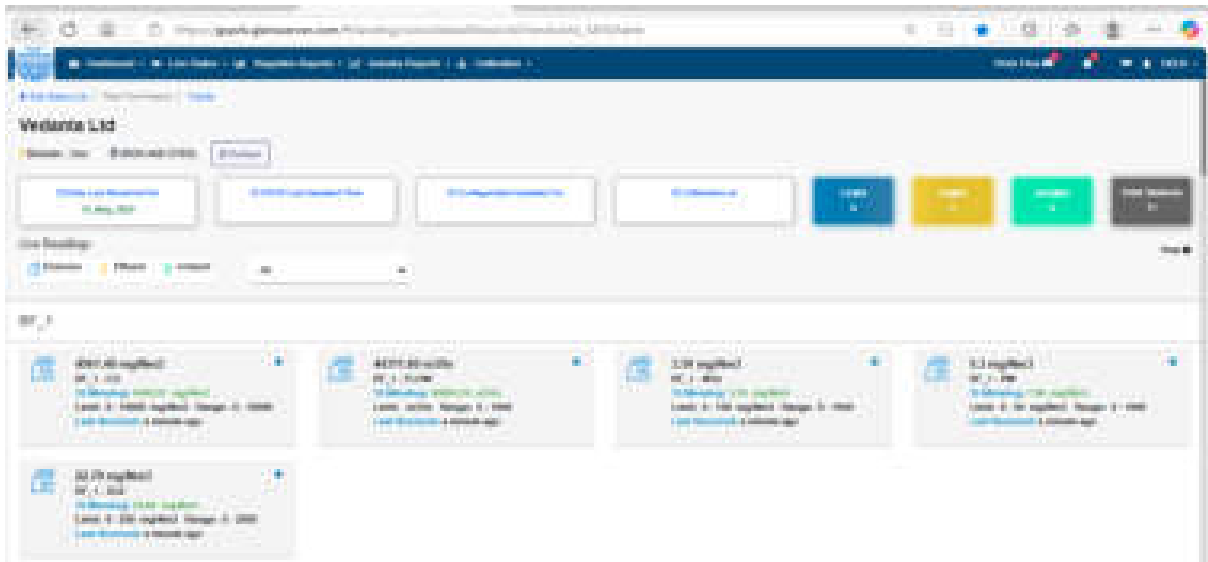
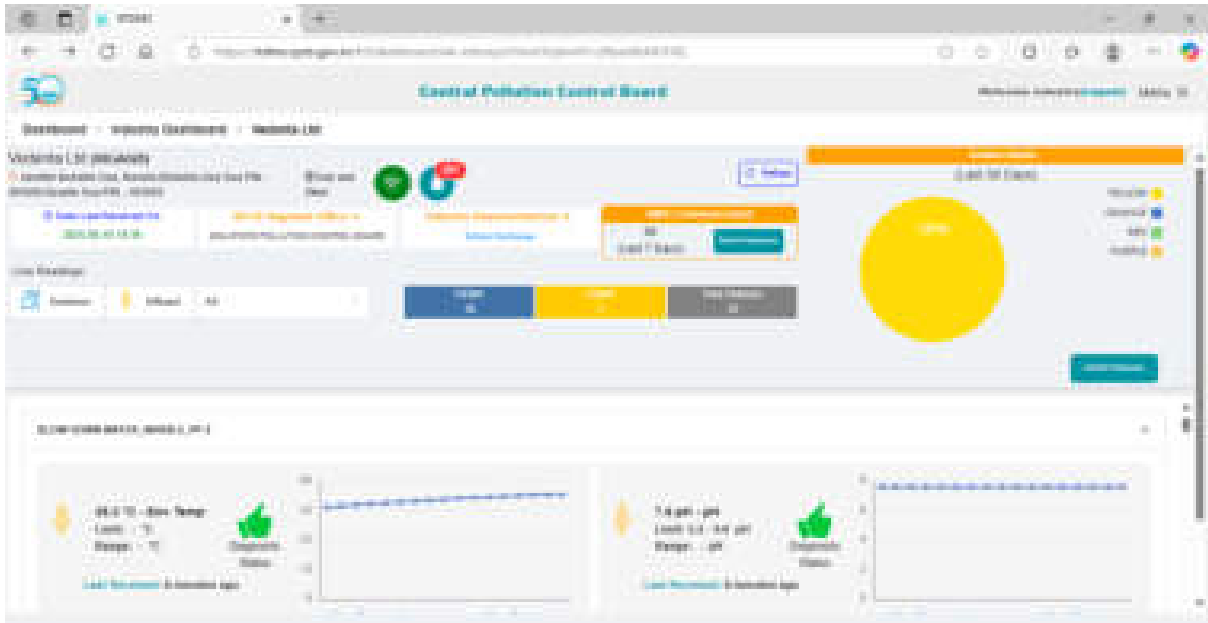


Green belt developed



CEMS and CAAQMS connected to GSPCB and CPCB

MITIGATION MEASURES



Annexure VI
Green belt developed along the boundaries and windshield

Developed green belt and windshield along the boundaries



Developed green belt and windshield along the boundaries



Developed green belt and windshield along the boundaries



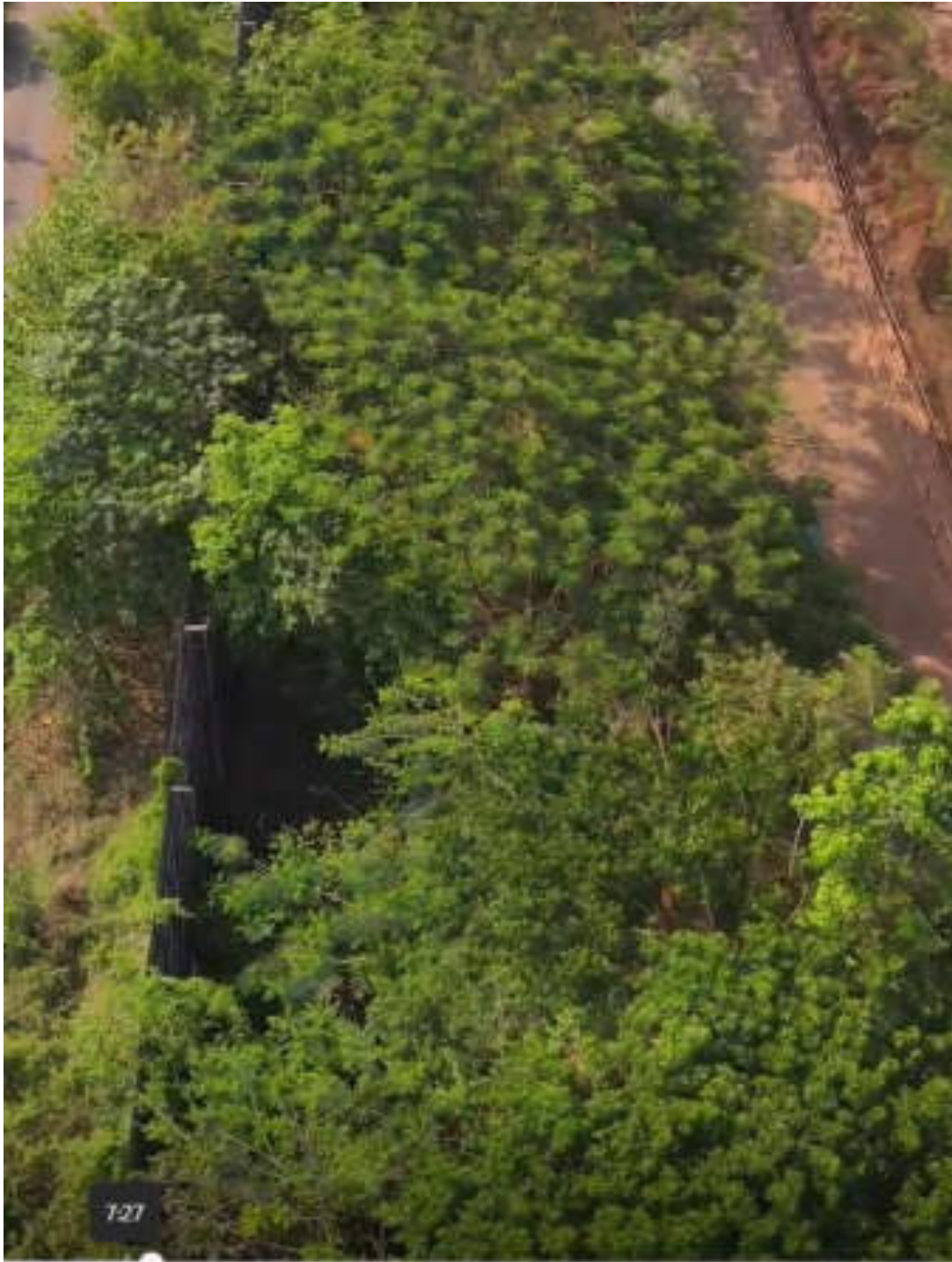
Developed green belt and windshield along the boundaries



Developed green belt and windshield along the boundaries



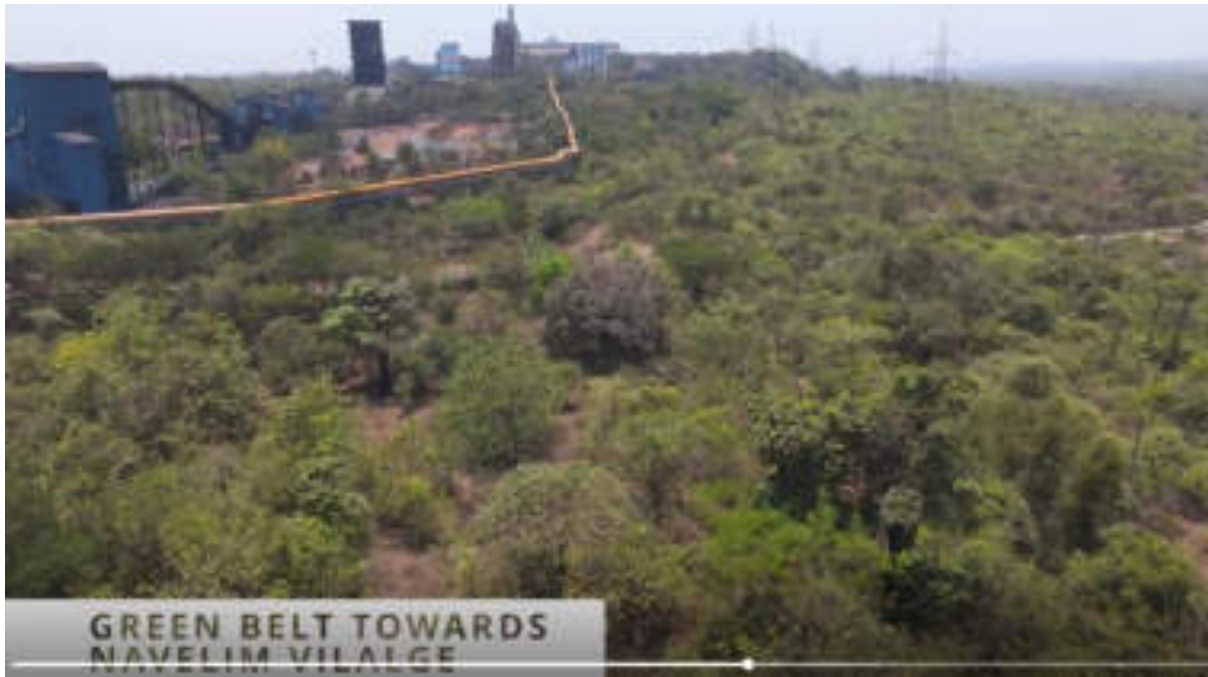
Developed green belt and windshield along the boundaries



Developed green belt and windshield along the boundaries



Developed green belt and windshield along the boundaries



Developed green belt and windshield along the boundaries



Annexure VII
Purchase order issued for CER

SNAPSHOT OF PURCHASE ORDER ISSUED FOR CER



PURCHASE ORDER

Page : 1 of 181

PO Number	: 4995071243
PO Date	: 06.02.2025
Vendor Code	: 733027
Vendor Name	: Vanaraj
Vendor Address	: MITRA MANDAL CROWE Aditya Residency Parvati PUNE - Maharashtra, 411009 India.
Your Reference	: -
Our Reference	: 4995071243
PO Currency	: Indian Rupee
PO Validity	: 06.02.2025 To 31.03.2025
Delivery Place/ Billing Address	: HAVELIN - AMONA MARCEL Goa 403107 India

DELIVERY DATE: SEE BELOW
WE RESERVE THE RIGHT TO
REJECT THE MATERIAL SUPPLIED
IF DATE IN ADVANCE OF
DELIVERY DATE SPECIFIED IN
THIS PURCHASE ORDER

Sr.	Item code	Plant	COB	Req. Qty	Rate	Value
No. Specification						
1	Project Greenfield Phase 2 - CSR	FIFE	AP	1.000	7,053,000.00	7,053,000.00
2	Services for CSR activities including supply of necessary materials as per requirement of VOR Sustainable Agricultural Development		LE	1.000	3,946,000.00	3,946,000.00
3	Project management consultancy, including scheduling, monitoring the work, site supervision, quality checks, billing, co-ordination, review and feedback etc. Salary of Project Coordinator		MOB	12.000	35,000.00	420,000.00
4	Project management consultancy, including scheduling, monitoring		MOB	12.000	28,000.00	336,000.00

Annexure VIII
Activities carried out as per approved wildlife management plan

Ref No. VAB/ENV/2022-23/42

Date: 27/12/2022

To,
The Office of The Deputy Conservator of Forests,
Wildlife and EcoTourism (North) Division
1st Lift, 4th Floor, Junta House,
Panaji-403 001 Goa

Sub: - Wildlife Conservation Plan for obtaining Environmental Clearance

Reference:

1. Letter no. 1-576/WL&ET(N)/2022-2023/661 dated 02/06/2022 received by us on 15/06/2022.

Respected sir,


With respect to the letter received from your good office vide Letter no. 1-576/WL&ET(N)/2022-2023/661 dated 02/06/2022 received by us on 15/06/2022, we are handing over 10 nos of trap cameras w.r.t to compliance Sr.No.4 of providing trap cameras to analyse the movement of wild animals.

Thanking you

Yours faithfully

For Vedanta Limited- Value Added Business


Saptesh Sardesai
CEO- Value Added Business


Despatch Clerk
O/o The Dy. Conservator of Forests
Wildlife & Eco-Tourism (North)
Panaji - Goa

VEDANTA LIMITED
New Gate (near the New Gate - 20100) Complex, Panna, Bhopal - 491 001, India
T: +91 (922) 240000 / 942622 22000000000

Registered Office
Vedanta Limited, The Plaza, 17th Floor, Link Road Corporate Avenue, Andhra Pradesh, Chittoor District (India), Hydrabad - 500015, India
CIN: L2000MH1997PLC291044



GOVERNMENT OF GOA
OFFICE OF THE DEPUTY CONSERVATOR OF FORESTS
WILDLIFE & ECO- TOURISM (NORTH) DIVISION
1ST LIFT, 4TH FLOOR, JUNTA HOUSE,
PANAJI - 403 001 (GOA)

Phone: 0832-2229701/ E mail: dcfwlnorth-forest.goa@nic.in

No.1-576/WL&ET(N)/2022-23

Dated:27/12/2022

RECEIPT

Received 10 nos. of trap cameras alongwith Safety Cases, 32 GB Memory Card & Duracell Batteries under Wildlife Conservation Plan for obtaining Environmental Clearance to analyse the movement of wild animals from Vedanta Limited, Sesa Goa Iron Ore : Sesa Ghor, 20 EDC Complex, Patto Panaji vide letter no.VAB/ENV/2022-23/42 dated 27/12/2022.

(Anand S. Jadhav)
Dy. Conservator of Forests
Wildlife & Eco-Tourism (N)



GOVERNMENT OF GOA
OFFICE OF THE DEPUTY CONSERVATOR OF FORESTS
WILDLIFE & ECO- TOURISM (NORTH) DIVISION
1ST FLOOR, 4TH FLOOR, JUNTA HOUSE,
PANAJI - 401 001 (GOA)

Phone: 0832-2229701 / E mail: dcfwnorth-forest.goa@nic.in

No. J-576/WL&ET(N)/2022-23

Dated: 10/02/2023

RECEIPT

Received 15 nos. of trap cameras alongwith Safety Cases, 32 GB Memory Cards & Duracell Batteries and assistance for celebration of Wildlife Week '2023 under Wildlife Conservation Plan from Vedanta Limited, Sesa Goa.

(Anand S. Jadhav)
Dy. Conservator of Forests
Wildlife & Eco-Tourism (N)

Letter No: VAB/ENV/23-24/23

Date:18/10/2023

To,

The Deputy Conservator of Forest – Wild Life North
Wildlife and EcoTourism (North) Division
1st Lift, 4th Floor, Junta House,
Panaji-403 001 Goa

Sub: - Implementation of approved Wildlife Conservation Plan

Reference:

1. Your letter numbered 1-576/WL&ET(N)/2022-2023/1131 dated 04/07/2023

Respected Sir,

We are sharing herewith the final proposal for rescue van with detail specification for your approval.

1. Vehicle Offer :

S.No.	Details	Value in Rupees
1.	SML ISUZU Cabin Chassis Prestige 4WD on 3365 Wheel Base With Power Steering BS VI	19,64,844.00
2.	GST @ 28%	5,50,156.00
Total		25,15,000.00

Terms and Conditions :


1. TCS @ 1% extra on above offered price.
2. Price is valid till 30th July 2023.
3. 100% payment advance along with Purchase Order.
4. Delivery 2 to 4 weeks from date of confirm order.
5. Other conditions as mentioned in the product catalogue.

VEDANTA LIMITED

Sesa Goa Iron Ore, Sesa Goa, 50 EDR Complex, Panaji, Panaji, Goa - 403 001, India
T : +91 832 2161888 | Website: www.sesagoanironore.com

Printed/Office: Vedanta Limited, 1st Floor, 6th wing, Link BPS, Corporate Avenue, Andhra Pradesh, Chokata, Andhra Pradesh (India), Mumbai 400001, Maharashtra, India

CIN: L11299MH2005PLC094594


Despatch Clerk
O/o The Dy. Conservator of Forests
Wildlife & Eco-Tourism (North)
Panaji - Goa

2. Vehicle Fabrication Charges

S.No.	Details	Value in Rupees
1.	Fabrication of "Animal Rescue Vehicle" similar to the existing vehicles supplied by the SML-ISUZU Limited to "VAN VIHAR" Bhopal the past with additional improvements. Features : <ul style="list-style-type: none"> a. Animal Cabin area with improved insulation for better cooling. b. Overhead Luggage carrier with equipment box. c. Ladder for easy access to top of the cabin. d. Foldable seats for 4 persons with steel frame and improved cushioning. e. Stainless Steel Wash basin with Tap. f. Overhead Water tank of 60 Litre capacity. g. Refrigerator for medicine supplies and Ice packs. h. Stainless Steel Counter Top with cupboard for supplies and equipment. i. Water Spray nozzle for humidity control inside cabin. j. 1.5 Ton Air conditioner unit for extra cooling inside the cabin. k. Positive locking of cage on floor to avoid jumping of cage during movements. l. Extra strengthening with 6 angle sections for the floor of cabin. m. One tower bolt in the tool box with Emergency gate. n. Fully automatic Cage retrieval mechanism along with automatic door closing. o. Top mounted rear CCTV Camera with display unit near driver. p. Flood light facility for rear loading door. 	17,26,000.00
2.	GST @ 18%	3,10,680.00
Total		20,36,680.00

Terms and Conditions :

1. Delivery of completed vehicle as per above specs shall be 8-12 weeks from date of receipt of 4WD Cabin Chassis.
2. TCS @ 1 % extra on above price.
3. 50% payment advance along with Purchase Order.
4. Balance payment after delivery and sign off of fully fabricated vehicle.
5. Delivery charges of Rs. 45,000/- at site in Goa.
6. Offer valid for 60 days from date of quotation.
7. Colour scheme to be finalized at the time of delivery.
8. Promotion signages shall be in the form of Stickers and payable at actuals.
9. **After receipt of clear purchase order, we shall submit detail drawings with a 3D presentation for better understanding of the user within a week.**

VEDANTA LIMITED

 Sesa Iron Ore, Sesa Goa, 20 EDR Complex, Porib, Pongla, Goa - 403 001, India
 T +91 982 2466661; Website: www.sesagroup.com

Regional Office: Vedanta Limited, 1st Floor, "C" wing, Unit 100, Corporate Avenue, Andhra Pradesh, Chokala, Andhra Pradesh, Machilipatnam 520004, Mahabubnagar, India

CIN: L10209MH2005PLN1294764

10. We expect an official sign off from the concern user in presence of your representatives for positive acceptance of the vehicle.
 11. Vehicle RTO and insurance charges extra at actuals.

Total Price of the Rescue vehicle	Rs. 45,51,680.00
--	-------------------------

3. CAGE Fabrication Charges

Cage specifications and price	
Details	Price
Cage Specifications : 1. 7'4" (L) X 3'2" (B) X 3'7" (H) 2. Floor 2 mm MS Chequered Plate 3. Side Sheet 1.6 mm 4. Two Ventilator and one sliding door. 5. MS Bars of 16 mm 6. Industry quality Hard PVC Wheels.	Rs. 1,35,000.00
GST @ 18 %	Rs. 24,300.00
Total Price	Rs. 1,59,300.00
Total price for rescue van, vehicle fabrication and cage fabrication	Rs. 4710980

Request your good office to please confirm on the specification provided above in order to process the offer.

Thanking you,

Yours faithfully,
 For Vedanta Limited



Saptech Sardesai
 CEO Value Added Business & Sesa Cement
 Vedanta Ltd

VEDANTA LIMITED

New Goa Iron Ore Sesa Club, 20 FER Complex, Pata, Pimpri, Goa - 407 008, India
 T +91 9822 244441 | Website: www.sesagroup.com

Registered Office: Vedanta Limited, 1st Floor, 'C' wing, Unit 103, Corporate Avenue, Mid-Project, Chakala, Andheri (East), Mumbai 400075, Maharashtra, India
 CIN: L12500MH2005PLC293294

RE: Rescue Van Drawing Approval

Prachi Kulkarni
 To: DCFM/Team
 Cc: Prachi Kulkarni, Ashish Kulkarni, Dipankar Sankar
 For: Rishi Kumar
 Rishi Kumar

Reply, Reply All, Forward, Print, More

With respect to Vehicle management plan Approval letter No. 11/KSP/PAF/WUM/T/02007-2022/054 dated 28/05/2022 of Vehicle Added Business of Welspun Ltd located at Aranya - Akvelin Dosa and your meeting held dated 28/05/2024, Action by the vendors response against each point asked towards additional utilities for the rescue van. The estimate for the Fabrication of Storage bins, SS First Aid Box, Other Provisions for Storage and Carling reinforcement will be approximately 820 plus GST 18% which will be charged additionally and will be taken from the item no. 7. Installation of waterhook for vehicle in the buffer area or other item where amount is available from approved vehicle management plan hence kindly confirm if we need to proceed with the implementation.

No.	Requirement	Type	Remarks from Client
4.	Provision for storage bins can used to animal restrain them will be three sets of each of three set (three dimensional weighing about 100 kg)	Storage can be Chemical type within the outer of animal van.	The said provision can be incorporated in the structure.
7.	Provision for stacking First Aid Box, Litterary and First Aid for the rescue van. Each box size is 400 mm x 400 mm x 400 mm size	Metallic storage cabinet with locking mechanism.	The said cabinet can be placed out of road or off road and for beyond inside the body for ease of collection.
3.	Collapsible racks three tier on sideways for storing Rescue equipment like restrain poles, y tongs, jab sticks etc.	Metallic pipe type or aluminium pipe type collapsible racks on side of crates inside.	Will require the dimensions of the equipment which is needed to be kept in the vehicle.
4.	Extra height luggage carrier on top to be used as Machan or raise platform for darting problematic animal from safe location.	Metallic type	Included in fabrication for Point 6.
5.	Proper drain for inside of crate in rescue van for draining urine and washing inside of crate. With 10 litre plastic or fibre collection bin.	PVC type with Attached barrel for collection bin type.	Already included in the design.
6.	Crate ceiling top surface to be flat and reinforced from bottom so as to allow staff to stand or sit on top of roof of vehicle while darting animal.	Metallic concealed reinforcement from bottom of crate top.	Can be done with a collapsible railing for security and stability of the staff.



GOVERNMENT OF GOA
OFFICE OF THE DEPUTY CONSERVATOR OF FORESTS
WILDLIFE & ECOTOURISM (NORTH) DIVISION
1ST FLOOR, 4TH FLOOR, JUNTA HOUSE,
PANAJI – 403 001 (GOA)

Phone: 0832-2229701 / Fax: 0832- 2422864
E mail: dcfnorth-forest.goa@nic.in

No. 1-576/WL&ET(N)/2023-2024/4624

Dated: - 27/02/2024
Phalgun 8 , 1945

To,
Smt. Prachi Zarmekar,
Associate Officer, Environment Department
Vedanta Limited,
Village Amona/Navelim,
Bicholim-Goa.

Sub: Rescue Van drawing Approval -Reg...
Ref: Your letter email dated 23.02.2024.

Madam,

With reference to the above cited subject and referred email, it is to inform that drawing and proposed layout of the vehicle body along with the suggestions for providing extra utility for rescue van has been approved by the Forest Department.

Therefore, I am request you to take up the work of rescue van as early as possible.

Submitted for necessary action please.

Yours faithfully,

(Anand S. Jadhav, IFS)
Dy. Conservator of Forests
Wildlife & Eco- tourism (N)

Ref.No.: VAB/ENV/24-25/29

Date: 15/10/2024

To,

The Deputy Conservator of Forest – Wild Life North
Wildlife and EcoTourism (North) Division
1st Lift, 4th Floor, Junta House,
Panaji-403-001 Goa

Sub: Implementation of approved Wildlife Conservation Plan

Reference:

1. Approved Wild life conservation plan (WLCP) vide letter no.1-576(PART)WL&ET(N)/2021-2022/554 dated 28/05/2021
2. Your letter numbered 1-576/WL&ET(N)/2022-2023/661 dated 02/06/2022 Jyaishta 12,1944 received by our office on 15/06/2022
3. Your letter numbered 1-576/WL&ET(N)/2023-2024/4472 dated 16/02/2024 Magha 27,1945 received by our office on 22/02/2024

Respected Sir,

With reference to the above letter numbers, we would like to inform your good office that the below activities/items requested as per the WLCP are handed over to your good office for FY 2024-25. The complete details of the same are mentioned as below:

Sr.No as per WLCP	Plan of operations	Cost	Date of handover	Remarks
1	Establishment of water holes for wildlife in the buffer area FY 22-23,23-24	8,00,000	10/07/2024	Amount credited to vendor Hajrat Ali Nanesab Badgi RTGS Dr-BARBOPONDAX-Hajrat Ali Nanesab Badgi-CBX Internet-HDFCR52024071073842346-C76718100724104759

VEDANTA LIMITED
Value Added Business, Pig Iron Division, Arona, PO Marol, Goa-403 107
T +91-832 641 2160 | F +91-832 238 2215 2383 | Web: www.vedantaltd.com

Registered Office: Vedanta Limited, 1st Floor, 'C' wing, Unit 103, Corporate Avenue, Andhri (East), Chhatrapati Shivaji Maharaj Vastu Sangrahalaya, Gandhinagar, Mumbai-400 002, Maharashtra, India.
CIN: L1229MH1999PLC251934

15/10/2024
Despatch Clerk
O/o The Dy. Conservator of Forests
Wildlife & Eco-Tourism (North)
Panaji, Goa

2	Providing rescue van to Forest department	4,670,000	05/07/2024	Rescue van along with rescue cage handed over to Forest department
3	Providing rescue cages and rescue equipment's to the forest department			
6	Financial support to the department for celebrating wildlife week and sponsoring the prizes for the competitions	3,00,000	03/07/2024	NEFT - FDR0001352 - C77205020724142929 - - 13520200007161 - SMC EVENTS NEFT - FDR0001352 - C77206020724142930 - - 13520200007146 - MECH TECH EVENTS
	Total amount	57,70,000/-		

We request your good office to kindly acknowledge the same.

Thanking you,

Yours faithfully,

For Vedanta Limited – Value Addition Business


Saptesh Sardesai
CEO - Value added Business & Cement

VEDANTA LIMITED

Value Added Business, Pig Iron Division, Alamos, PO Masuda, Goa-403 107
T: +91-832 641 2150 | F: +91-832 216 0211 2188 | Web: www.vedantaindia.com

Registered Office: Vedanta Limited, 1st Floor, 'C' wing, Old IRI, Corporate Avenue, Aard Project, Chhatrapati, Anchari (Dist), Mumbai 400040, Maharashtra, India
CIN: L12299MH02965PLC190294

Annexure IX
Archaeological sites monitoring reports



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



ULR NO: TC138772400010729F

TEST REPORT

Lab Inward No. : SL/24-25/10/MAA/99M	Date of Sampling: 21-22/10/2024
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 22/10/2024
	End of Analysis: 25/10/2024
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Report Date: 26/10/2024
	Sample Drawn By: SATPL Representative on 21-22/10/2024
Order / Reference: As per TRF dated 21/10/2024	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182	
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location : Near Siddhartha Caves, Surla ,(N15 ° 29'59.82972" E74° 01'30.0162")	
Lateral Distance : 10.0 meter	Duration : 24 Hrs.
Receptor Height : 3.0 meter	Time : 11:40 am to 11:40 am
Relative humidity [%]: 88	Ambient Temperature [°C] : 28.0

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	8.46	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	12.65	<80.0	µg/m ³	IS 5182(Part-6)2006 R2022
3	Particulate Matter PM ₁₀	49.12	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2022
4	Particulate Matter PM _{2.5}	24.12	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9)-R2019
6	Ammonia (NH ₃)	<14.0	<400.0	µg/m ³	IS 5182(Part-25)-R2018

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

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

Page 1 of 2

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 31/06/2026.



TEST REPORT

Lab Inward No. : SL/24-25/10/MAA/99M	Date of Sampling: 21-22/10/2024
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 22/10/2024
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM - GOA.	End of Analysis: 25/10/2024
	Report Date: 26/10/2024
	Sample Drawn By: SATPL Representative on 21-22/10/2024
Order / Reference: As per TRF dated 21/10/2024	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182.	
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location : Near Siddhartha Caves, Surla ,(N15 ° 29'59.82972" E74° 01'30.0162")	
Lateral Distance : 10.0 meter	Duration : 24 Hrs.
Receptor Height : 3.0 meter	Time : 11:40 am to 11:40 am
Relative humidity [%]: 88	Ambient Temperature [°C]: 28.0

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.56	<4.0 for 1 Hrs	mg/m3	IS 5182(Part-10)-1999 R2019
8	Lead as (Pb)	<0.01	<1.0	µg/m3	IS 5182(Part-22)-2004 R2019
9	Benzene (C ₆ H ₆)	<0.1	<5.0**	µg/m3	IS 5182 (Part 11)-2005 R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m3	IS 5182 (Part 12)-2004 R2019
11	Arsenic (As)	<5.0	<8.0**	ng/m3	CPCB Guideline volume-1-2012
12	Nickel (Ni)	<6.0	<20.0**	ng/m3	IS 5182(Part-26)-2020

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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

EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	Certificate	Calibration Detail	
				Calibrated Date	Calibration Due Date
---	Ambient Air Sampler-E	SATPL/AR/AAS/34	ASPM/2023-24/265-12	18.03.2024	18.03.2025
---	Ambient Air Sampler-E	SATPL/AR/AAS/34	ASPM/2023-24/265-12	18.03.2024	18.03.2025
---	Ambient Air Sampler-E	SATPL/AR/AAS/34	ASPM/2023-24/265-12	18.03.2024	18.03.2025
50627	Digital Electronic Balance	SL/SMB/41	ACS/454/CM 30/230071	19.03.2024	18.03.2025
N/A	Digital Spectrophotometer Model	SL/SV/34	---	Inhouse Calibration	

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

—End of Test Report—

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Page 2 of 2



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TC-13877

ULR NO: TC138772400010728F

TEST REPORT

Lab Inward No. : SL/24-25/10/MAA/99L	Date of Sampling: 21-22/10/2024
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 22/10/2024
VALUE ADDITION BUSINESS, AMONA AND NAVEJIM, BICHOLIM – GOA.	End of Analysis: 25/10/2024
	Report Date: 26/10/2024
Sample Drawn By: SATPL Representative on 21-22/10/2024	
Order / Reference: As per TRF dated 21/10/2024	
Monitoring For: Ambient Air Monitoring	
Sampling Procedure: As per IS 5182	
Limits: *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location: Near Mosque, Surle (N15° 29'51.67104" E74° 01'7.04532")	
Lateral Distance: 10.0 meter	Duration: 24 Hrs.
Receptor Height: 3.0 meter	Time : 11:30 am to 11:30 am
Relative humidity [%]: 89	Ambient Temperature [°C]: 38.0

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	9.77	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	12.23	<80.0	µg/m ³	IS 5182(Part-6)2006 R2022
3	Particulate Matter PM ₁₀	51.89	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2022
4	Particulate Matter PM _{2.5}	24.12	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9):R2019
6	Ammonia (NH ₃)	<14.0	<400.0	µg/m ³	IS 5182(Part-25):R2018

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

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

Page 1 of 2



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TEST REPORT

Lab Inward No. : SL/24-25/10/MAA/99L	Date of Sampling: 21-22/10/2024
Client Name : M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Start of analysis: 22/10/2024
	End of Analysis: 25/10/2024
	Report Date: 26/10/2024
	Sample Drawn By: SATPL Representative on 21-22/10/2024
Order / Reference: As per TRF dated 21/10/2024	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182	
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location : Near Mosque,Surla (N15° 29'51.67104" E74° 01'7.04532")	
Lateral Distance : 10.0 meter	Duration : 24 Hrs.
Receptor Height : 3.0 meter	Time : 11:30 am to 11:30 am
Relative humidity (%): 89	Ambient Temperature [°C] : 28.0

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.63	<4.0 for 1 Hrs	mg/m3	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	<5.0**	µg/m ³	IS 5182 (Part 11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m ³	IS 5182 (Part 12):2004 R2019
11	Arsenic (As)	<5.0	<5.0**	ng/m ³	CPCB Guideline volume-1:2012
12	Nickel (Ni)	<5.0	<20.0**	ng/m ³	IS 5182(Part-26):2020

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
*** Hourly Value

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
	Ambient Air Sampler-S	SATPL/AIR/AAS/34	ASPM/2023-24/205-12	18.03.2024	18.03.2025
	Ambient Air Sampler-S	SATPL/AIR/AAS/34	ASPM/2023-24/205-12	18.03.2024	18.03.2025
	Ambient Air Sampler-S	SATPL/AIR/AAS/34	ASPM/2023-24/205-12	18.03.2024	18.03.2025
55627	Digital Electronic Balance	SL/SMB/41	ACS/MS/GCM 30/230072	18.03.2024	18.03.2025
NA	Digital Spectrophotometer Model	SL/UV/34		Inhouse Calibration	

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

—End of Test Report—

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TC-15877

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 31/06/2026.

ULR NO: TC138772400011224F

TEST REPORT

Lab Inward No. : SL/24-25/11/MAA/140L	Date of Sampling: 21-22/11/2024
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 22/11/2024
	End of Analysis: 26/11/2024
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Report Date: 26/11/2024
	Sample Drawn By: SATPL Representative on 21-22/11/2024
Order / Reference: As per TRF dated 12/11/2024	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182.	
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location : Near Siddhartha Caves, Surla (N15° 29'59.82972" E74° 01'30.0162")	
Lateral Distance : 10.0 meter	Duration : 24 Hrs.
Receptor Height : 3.0 meter	Time : 11:30 am to 11:30 am
Relative humidity (%): 72	Ambient Temperature (°C): 29.0

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	10.42	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	16.22	<80.0	µg/m ³	IS 5182(Part-6)2006 R2022
3	Particulate Matter PM ₁₀	52.86	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2022
4	Particulate Matter PM _{2.5}	25.37	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9):R2019
6	Ammonia (NH ₃)	<14.0	<400.0	µg/m ³	IS 5182(Part-25):R2018

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.

Quality Manager
Authorized Signatory

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TEST REPORT					
Lab Inward No. : SL/24-25/11/MAA/140L			Date of Sampling: 21-22/11/2024		
Client Name : M/s. VEDANTA LIMITED			Start of analysis: 22/11/2024		
			End of Analysis: 26/11/2024		
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.			Report Date: 26/11/2024		
			Sample Drawn By: SATPL Representative on 21-22/11/2024		
Order / Reference: As per TRF dated 12/11/2024					
Monitoring For : Ambient Air Monitoring					
Sampling Procedure : As per IS 5182.					
Limits : *N.A.A.Q.S., National Ambient Air Quality Standards.					
Sampling Location : Near Siddhartha Caves, Surla, (N15° 29'59.82972" E74° 01'30.0162")					
Lateral Distance : 10.0 meter			Duration : 24 Hrs.		
Receptor Height : 3.0 meter			Time : 11:30 am to 11:30 am		
Relative humidity [%]: 72			Ambient Temperature [°C] : 29.0		
RESULTS					
Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.52	<4.0 for 1 Hrs	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	<5.0**	µg/ m ³	IS 5182 (Part-11):2000 R2023
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/ m ³	IS 5182 (Part-12):2004 R2019
11	Arsenic (As)	<5.0	<5.0**	ng/ m ³	CPCB Guideline volume-1:2012
12	Nickel (Ni)	<6.0	<25.0**	ng/ m ³	IS 5182(Part-26):2020
REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.					
** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.					
*** Hourly Value					
Disclaimer: Information is supplied by customers represented in <i>italic font</i>					
EQUIPMENT CALIBRATION DETAILS					
Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
1033 DTB 2021	FINE DUST SAMPLER (PM 2.5)	SATPL/AR/AA/37	ADPW/2023-24/205-14	18.01.2024	18.01.2025
1081 DTB 2021	ROS (PM 10)	SATPL/AR/AA/37	ADPW/2023-24/205-14	18.01.2024	18.01.2025
1099 DTB 2021	Gaseous Attachment Sample	SATPL/AR/AA/37	ADPW/2023-24/205-14	18.01.2024	18.01.2025
55637	Digital Electronic Balance	SL/SMB/41	AD5/456/COM 35/230072	18.08.2024	18.01.2025
NA	Digital Spectrophotometer Model	SL/UV/34		In-house Calibration	
Review By,			For Shreeji Aqua Treatment Pvt. Ltd.		
 Sr. Analyst			 Quality Manager Authorized Signatory		

—End of Test Report—

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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: TC138772400011223F

TEST REPORT					
Lab Inward No. : SL/24-25/11/MAA/140K			Date of Sampling: 21-22/11/2024		
Client Name : M/s. VEDANTA LIMITED			Start of analysis: 22/11/2024		
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM - GOA.			End of Analysis: 26/11/2024		
			Report Date: 26/11/2024		
Sample Drawn By: SATPL Representative on 21-22/11/2024					
Order / Reference: As per TRF dated 12/11/2024					
Monitoring For: Ambient Air Monitoring					
Sampling Procedure: As per IS 5182					
Limits: *N.A.A.Q.S.-National Ambient Air Quality Standards.					
Sampling Location: Near Mosque, Surla (N15° 29'51.57104" E74° 01'7.04532")					
Lateral Distance: 10.0 meter			Duration: 24 Hrs.		
Receptor Height: 3.0 meter			Time : 11:35 am to 11:35 am		
Relative humidity (%): 72			Ambient Temperature [°C]: 29.0		
RESULTS					
Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	11.07	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	15.80	<80.0	µg/m ³	IS 5182(Part-6)2006 R2022
3	Particulate Matter PM ₁₀	55.26	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2022
4	Particulate Matter PM _{2.5}	23.29	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9)-R2019
6	Ammonia (NH ₃)	<14.0	<400.0	µg/m ³	IS 5182(Part-25)-R2018
REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.					
** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.					
*** Hourly Value					
Disclaimer: <i>Information is supplied by customers represented in italic font</i>					
Review By,		For Shreeji Aqua Treatment Pvt. Ltd.			
Sr. Analyst				Quality Manager Authorized Signatory	

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TEST REPORT

Lab Inward No. : SL/24-25/11/MAA/140K		Date of Sampling: 21-22/11/2024			
Client Name : M/s. VEDANTA LIMITED		Start of analysis: 22/11/2024			
		End of Analysis: 26/11/2024			
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.		Report Date: 26/11/2024			
		Sample Drawn By: SATPL Representative on 21- 22/11/2024			
Order / Reference: As per TRF dated 12/11/2024					
Monitoring For : Ambient Air Monitoring					
Sampling Procedure : As per IS 5182					
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.					
Sampling Location : Near Mosque,Surla (N15 ° 29'51.67104" E74° 01'7.04532")					
Lateral Distance : 10.0 meter			Duration : 24 Hrs.		
Receptor Height : 3.0 meter			Time : 11:35 am to 11:35 am		
Relative humidity [%]: 72			Ambient Temperature [°C]: 29.0		
RESULTS					
Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.60	<4.0 for 1 Hrs	mg/m ³	IS 5182(Part-10):2004 R2019
8	Lead as (Pb)	<0.01	<1.0	µg/m ³	IS 5182(Part-12):2004 R2019
9	Benzene (C ₆ H ₆)	<0.1	<5.0**	µg/m ³	IS 5182 (Part-11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m ³	IS 5182 (Part-12):2004 R2019
11	Arsenic (As)	<5.0	<5.0**	ng/m ³	CPCB Guideline volume-1:2012
12	Nickel (Ni)	<6.0	<20.0**	ng/m ³	IS 5182(Part-20):2020


REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.
 ** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
 *** Hourly Value


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EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
094 DTS 2020	FINE DUST SAMPLER (PM 2.5)	SATPL/AR/AAS/34	ASPM/2023-24/205-12	19.03.2024	18.01.2025
TR123	EDS (PM 10)	SATPL/AR/AAS/34	ASPM/2023-24/205-12	19.03.2024	18.01.2025
AAS30201	Sieves Attachment Sample	SATPL/AR/AAS/34	ASPM/2023-24/205-12	19.03.2024	18.01.2025
55627	Digital Electronic Balance	SL/SMB/41	ACB/036/CM 30/300073	19.03.2024	18.01.2025
NA	Digital Spectrophotometer Model	SL/AN/34	—	Inhouse Calibration	

Review By:  For Shreeji Aqua Treatment Pvt. Ltd.

Sr. Analyst: 

Quality Manager Authorized Signatory: 

— End of Test Report —

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

Lab: 164,Shreeji Terrace Apt. Plot No. 51, Purna Nagar, Chikhali, Pune-411019

Vadodara: Plot No. 1, Shah Ind. Park-I, Vadodara-Sarkh, Lamsapur. 391 775 Dist. Vadodra

Customer Care No: +91225247345 Email: info@shreejiagua.com Web: www.shreejiagua.com

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



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Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 18/06/2028.

URL NO: TC138772400011794F

TEST REPORT

Lab Inward No. : SL/24-25/12/MAA/111e	Date of Sampling: 19-20/12/2024
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 20/12/2024
VALUE ADDITION BUSINESS, AMONA AND NAVELEM, BICHOLIM - GOA.	End of Analysis: 24/12/2024
	Report Date: 24/12/2024
	Sample Drawn By: SATPL Representative on 19-20/12/2024
Order / Reference: As per TRF dated 06/12/2024	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182.	
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location : Near Siddhartha Caves, Suria, (N15° 29'59.82972" E74° 01'30.0162")	
Lateral Distance : 10.0 meter	Duration : 24 Hrs.
Receptor Height : 3.0 meter	Time : 11:35 am to 11:35 am
Relative humidity [%]: 72	Ambient Temperature [°C] : 30

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	14.32	<80.0	µg/m ³	IS-5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	20.49	<80.0	µg/m ³	IS-5182(Part-6)2006 R2022
3	Particulate Matter PM ₁₀	51.28	<100.0	µg/m ³	IS-5182 (Part-23)2006 R2022
4	Particulate Matter PM _{2.5}	21.62	<60.0	µg/m ³	IS-5182 (Part-24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS-5182(Part-9)-R2019
6	Ammonia (NH ₃)	<14.0	<400.0	µg/m ³	IS-5182(Part-25):R2018

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
Authorized Signatory

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TEST REPORT

Lab Inward No. : SL/24-25/12/MAA/111e	Date of Sampling: 19-20/12/2024
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 20/12/2024
	End of Analysis: 24/12/2024
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM - GOA.	Report Date: 24/12/2024
	Sample Drawn By: SATPL Representative on 19-20/12/2024

Order / Reference: As per TRF dated 06/12/2024

Monitoring For : Ambient Air Monitoring

Sampling Procedure : As per IS 5182.

Limits : *N.A.A.Q.S. -National Ambient Air Quality Standards.

Sampling Location : Near Siddhartha Caves, Surla ,(N15° 29'59.82972" E74° 01'30.0162")

Lateral Distance : 10.0 meter

Duration : 24 Hrs.

Receptor Height : 3.0 meter

Time : 11:35 am to 11:35 am

Relative humidity [%]: 72.

Ambient Temperature [°C]: 30

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.47	<4.0 for 1 Hrs	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	<5.0**	µg/m ³	IS 5182 (Part-11):2006-R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m ³	IS 5182 (Part-12):2004-R2019
11	Arsenic (As)	<5.0	<5.0**	ng/m ³	CPCB Guideline volume-1:2012
12	Nickel (Ni)	<5.0	<20.0**	ng/m ³	IS 5182(Part-26):2020

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
150804037	Ambient Air Sampler-B	SATPL/AMB/AAS/37	ASPM/2023-24/205-14	19.03.2024	18.03.2025
150804037	Ambient Air Sampler-B	SATPL/AMB/AAS/37	ASPM/2023-24/205-14	19.03.2024	18.03.2025
150804037	Ambient Air Sampler-B	SATPL/AMB/AAS/37	ASPM/2023-24/205-14	19.03.2024	18.03.2025
55627	Digital Electronic Balance	SL/SMB/41	ACS/496/CM 35/230073	18/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SL/A/M/3A		Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

—End of Test Report—

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Page 2 of 2

Pune: Plot No. 9-24, H Block, Lal Topi Nagar, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra 411016.

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

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

Customer Care No.: +919225347365 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

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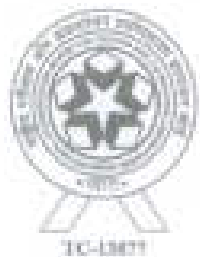
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ULR NO: TC138772400011783F

TEST REPORT

Lab Inward No. : 5L/24-25/12/MAA/111d	Date of Sampling: 19-20/12/2024
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 20/12/2024
	End of Analysis: 24/12/2024
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Report Date: 24/12/2024
	Sample Drawn By: SATPL Representative on 19-20/12/2024
Order / Reference: As per TRF dated 06/12/2024	
Monitoring For: Ambient Air Monitoring	
Sampling Procedure: As per IS 5182	
Limits: *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location: Near Mosque, Surla (N15° 29'51.67104" E74° 01'7.04532")	
Labral Distance: 10.0 meter	Duration: 24 Hrs.
Receptor Height: 3.0 meter	Time : 11:40 am to 11:40 am
Relative humidity [%]: 72	Ambient Temperature [°C]: 30

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	7.16	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	18.77	<80.0	µg/m ³	IS 5182(Part-6)2006 R2022
3	Particulate Matter PM ₁₀	43.90	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2022
4	Particulate Matter PM _{2.5}	20.38	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9):R2019
6	Ammonia (NH ₃)	<14.0	<400.0	µg/m ³	IS 5182(Part-25):R2018

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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



For Shreeji Aqua Treatment Pvt. Ltd.

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Page 1 of 2

Phone: Plot No. B-24, H Block, Lal Toot Nagar, Mherwad, MIDC, Pimpri-Chinchwad, Maharashtra-411018.

Lab: 184,Shreeji Terrace Apts, Plot No. 35, Parna Nagar, Chinchwad, Pune-411019

Vadodara Plot No. 1, Shah.Ind. Park-1, Vadodara-Sarl, Larejapura, 391 775 Dist. Vadodra

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

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TEST REPORT

Lab Inward No. : SL/24-25/12/MAA/111d	Date of Sampling: 19-20/12/2024
Client Name : M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIUM – GOA.	Start of analysis: 20/12/2024
	End of Analysis: 24/12/2024
	Report Date: 24/12/2024
	Sample Drawn By: SATPL Representative on 19-20/12/2024

Order / Reference: As per TRF dated 06/12/2024

Monitoring For : Ambient Air Monitoring

Sampling Procedure : As per IS 5182

Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.

Sampling Location : Near Mosque, Surfa (N15° 29'51.67104" E74° 01'7.04532")

Lateral Distance : 10.0 meter

Duration : 24 Hrs.

Receptor Height : 3.0 meter

Time : 11:40 am to 11:40 am

Relative humidity [%]: 72

Ambient Temperature [°C]: 30

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.54	<4.0 for 1 Hrs	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	<5.0**	µg/m ³	IS 5182 (Part-11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m ³	IS 5182 (Part-12):2004 R2019
11	Arsenic (As)	<5.0	<6.0**	ng/m ³	CPCB Guideline volume-1:2012
12	Nickel (Ni)	<6.0	<20.0**	ng/m ³	IS 5182 (Part-26):2020

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
	Ambient Air Sampler-6	SATPL/AIR/AAS/14	ASFM/2023-24/205-12	19.03.2024	18.03.2025
	Ambient Air Sampler-6	SATPL/AIR/AAS/14	ASFM/2023-24/205-12	19.03.2024	18.03.2025
	Ambient Air Sampler-6	SATPL/AIR/AAS/14	ASFM/2023-24/205-12	19.03.2024	18.03.2025
SS627	Digital Electronic Balance	SC/SMB/41	ACI/MS6/CM 30/330072	19/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	24/11/24		Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



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Page 2 of 2

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

Lab: 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chinchwad, Pune-411016

Vadodara: Plot No. 1, Shahi 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 NO: TC138772500012440F

TEST REPORT

Lab Inward No. : SL/24-25/01/MAA/100J	Date of Sampling: 23-24/01/2025
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 24/01/2025
	End of Analysis: 28/01/2025
VALUE ADDITION BUSINESS, AMONA AND NVELIM, BICHOLIM - GOA.	Report Date: 28/01/2025
	Sample Drawn By: SATPL Representative on 23-24/01/2025
Order / Reference: As per TRF dated 09/01/2025	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182.	
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location : Near Siddhartha Caves, Surla ,(N15 ° 29'59.82972" E74 ° 01'30.0162")	
Lateral Distance : 10.0 meter	Duration : 24 Hrs.
Receptor Height : 3.0 meter	Time : 11:40 am to 11:40 am
Relative humidity [%]: 70	Ambient Temperature [°C]: 31

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	9.12	<80.0	µg/m ³	IS 5182(Part-1)2001 R2022
2	Nitrogen Dioxide (NO ₂)	17.49	<80.0	µg/m ³	IS 5182(Part-6)2006 R2022
3	Particulate Matter PM ₁₀	42.44	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2022
4	Particulate Matter PM _{2.5}	18.71	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9):R2019
6	Ammonia (NH ₃)	<14.0	<400.0	µg/m ³	IS 5182(Part-25):R2018

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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For Shreeji Aqua Treatment Pvt. Ltd.

Sum
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 Top Nagar, Shivajinagar, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 164, Shreeji Terrace Apts, Plot No. 53, Purna Nagar, Chikhali, Pune-411019

Vadodara: Plot No. 1, Shah Jind Park 1, Vadodara Sevic Landapora, 381 775 Dist. Vadodra

Customer Care No: +91 9220247365 Email: info@shreejiagua.com Web: www.shreejiagua.com

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TEST REPORT

Lab Inward No. : SL/24-25/01/MAA/1001	Date of Sampling: 23-24/01/2025
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 24/01/2025
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM - GOA.	End of Analysis: 28/01/2025
	Report Date: 28/01/2025
	Sample Drawn By: SATPL Representative on 23-24/01/2025

Order / Reference: As per TRF dated 09/01/2025

Monitoring For : **Ambient Air Monitoring**

Sampling Procedure : As per IS 5182.

Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.

Sampling Location : Near Siddhartha Caves, Surla ,(N15 ° 29'59.82972" E74° 01'30.0162")

Lateral Distance : 10.0 meter

Duration : 24 Hrs.

Receptor Height : 3.0 meter

Time : 11:40 am to 11:40 am

Relative humidity [%]: 70

Ambient Temperature [°C]: 31

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.53	<4.0 for 1 Hrs	mg/m3	IS 5182(Part-10):1999 R2019
8	Lead as (Pb)	<0.01	<1.0	ug/m3	IS 5182(Part-27):2004 R2019
9	Benzene (C ₆ H ₆)	<0.1	<5.0**	ug/m3	IS 5182 (Part 11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m3	IS 5182 (Part 12):2004 R2019
11	Arsenic (As)	<5.0	<6.0**	ng/m3	CPCB Guideline volume-1:2012
12	Nickel (Ni)	<6.0	<20.0**	ng/m3	IS 5182(Part-26):2020

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
13080437	Ambient Air Sampler-B	SATPL/AIR/AAS/37	ASPM/2023-24/205-18	18.03.2024	18.03.2025
15060437	Ambient Air Sampler-B	SATPL/AIR/AAS/37	ASPM/2023-24/205-18	18.03.2024	18.03.2025
13080437	Ambient Air Sampler-B	SATPL/AIR/AAS/37	ASPM/2023-24/205-18	18.03.2024	18.03.2025
55027	Digital Electronic Balance	SL/SMB/41	ACL/458/CM 88/240072	18/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SL/SW/34	---	Inhouse Calibration.	

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

—End of Test Report—

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Page 2 of 2

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

Lab: 164 Shreeji Terrace Apt. Plot No. 51, Purna Nagar, Chikhali, Pune 411018

Vadodara: Plot No. 1, Shah Ind. Park-1, Vadodara-Sewli, Lamsdapura, 381 775 Dist. Vadodra

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ULR NO: TC138772500012439F

TEST REPORT

Lab Inward No. : SL/24-25/01/MAA/1001	Date of Sampling: 23-24/01/2025
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 24/01/2025
	End of Analysis: 28/01/2025
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Report Date: 28/01/2025
	Sample Drawn By: SATPL Representative on 23-24/01/2025
Order / Reference: As per TRF dated 09/01/2025	
Monitoring For: Ambient Air Monitoring	
Sampling Procedure: As per IS 5182	
Limits: *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location: Near Mosque, Surta (N15° 29'51.67104" E74° 01'7.04532")	
Lateral Distance: 10.0 meter	Duration: 24 Hrs.
Receptor Height: 3.0 meter	Time : 11:30 am to 11:30 am
Relative humidity (%): 70	Ambient Temperature [°C] : 31

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	8.46	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	14.59	<80.0	µg/m ³	IS 5182(Part-6)2006 R2022
3	Particulate Matter PM ₁₀	48.95	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2021
4	Particulate Matter PM _{2.5}	19.54	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	*180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9):R2019
6	Ammonia (NH ₃)	<14.0	<400.0	µg/m ³	IS 5182(Part-25):R2018

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

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Page 1 of 2

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

Lab: 184 Shreeji Terrace Apt. Plot No. 58, Purva Nagar, Chinchwad, Pune, 411019

Vadodara: Plot No. 1, Shah Ind. Park - 1, Vadodra-Sarl, Laxmapura, 391 775 Dist. Vadodra

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TEST REPORT					
Lab Inward No. : SL/24-25/01/MAA/1001			Date of Sampling: 23-24/01/2025		
Client Name : M/S. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.			Start of analysis: 24/01/2025		
			End of Analysis: 28/01/2025		
			Report Date: 28/01/2025		
			Sample Drawn By: SATPL Representative on 23-24/01/2025		
Order / Reference: As per TRF dated 09/01/2025					
Monitoring For : Ambient Air Monitoring					
Sampling Procedure : As per IS 5182					
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.					
Sampling Location : Near Mosque,Surla (N15° 29'51.67104" E74° 01'7.04532")					
Lateral Distance : 10.0 meter			Duration : 24 Hrs.		
Receptor Height : 3.0 meter			Time : 11:30 am to 11:30 am		
Relative humidity [%]: 70			Ambient Temperature [°C] : 31		
RESULTS					
Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.45	<4.0 for 1 Hrs	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	<5.0**	µg/m ³	IS 5182 (Part 11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m ³	IS 5182 (Part 17):2004 R2019
11	Arsenic (As)	<5.0	<5.0**	ng/m ³	CPCB Guideline volume-1:2012
12	Nickel (Ni)	<6.0	<20.0**	ng/m ³	IS 5182(Part-26):2020
REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.					
** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.					
*** Hourly Value					
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
---	Ambient Air Sampler-6	SATPL/AIR/AAS/34	ASPM/2023-24/205-12	19.03.2024	18.03.2025
---	Ambient Air Sampler-6	SATPL/AIR/AAS/34	ASPM/2023-24/205-12	19.03.2024	18.03.2025
---	Ambient Air Sampler-6	SATPL/AIR/AAS/34	ASPM/2023-24/205-12	19.03.2024	18.03.2025
SS627	Digital Electronic Balance	SL/SM/41	ACL/ASA/CM 30/290072	09/03/2024	08/03/2025
NA	Digital Spectrophotometer Model	SL/AV/34	---	Inhouse Calibration	
For Shreeji Aqua Treatment Pvt. Ltd.					

End of Test Report

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

Page 3 of 2

Pune: Plot No. B-24, H Block, Lal Topi Nagar, Narewad, 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-Sevil, Larnidipura, 391 775 Dist. Vadodra

Customer Care No: +919225247395 Email: info@shreejaqua.com Web: www.shreejaqua.com

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ULR NO: TC138772500012991F

TEST REPORT

Lab Inward No. : SL/24-25/02/MAA/337K	Date of Sampling: 20-21/02/2025
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 21/02/2025
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	End of Analysis: 25/02/2025
	Report Date: 25/02/2025
Sample Drawn By: SATPL Representative on 20-21/02/2025	
Order / Reference: As per TRF dated 20/02/2025	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182.	
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location : Near Siddhartha Caves, Surla (N15° 29'59.82972" E74° 01'30.0162")	
Lateral Distance : 10.0 meter	Duration : 24 Hrs.
Receptor Height : 5.0 meter	Time : 11:50 am to 11:50 am.
Relative humidity [%]: 68	Ambient Temperature [°C] : 30

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	11.07	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	14.81	<80.0	µg/m ³	IS 5182(Part-6)2006 R2022
3	Particulate Matter PM ₁₀	49.39	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2022
4	Particulate Matter PM _{2.5}	24.12	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9):R2019
6	Ammonia (NH ₃)	<14.0	<400.0	µg/m ³	IS 5182(Part-25):R2018

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

Disclaimer: *Information is 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 2

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TEST REPORT					
Lab Inward No. : SL/24-25/02/MAA/337K			Date of Sampling: 20-21/02/2025		
Client Name : M/s. VEDANTA LIMITED			Start of analysis: 21/02/2025		
			End of Analysis: 25/02/2025		
VALUE ADDITION BUSINESS, AMONA AND NAVELEM, BICHOLIM - GOA.			Report Date: 25/02/2025		
			Sample Drawn By: SATPL Representative on 20-21/02/2025		
Order / Reference: As per TRF dated 20/02/2025					
Monitoring For : Ambient Air Monitoring					
Sampling Procedure : As per IS 5182.					
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.					
Sampling Location : Near Siddhartha Caves, Suria ,(N15° 29'59.82972" E74° 01'30.0162")					
Lateral Distance : 10.0 meter			Duration : 24 Hrs.		
Receptor Height : 3.0 meter			Time : 11:50 am to 11:50 am		
Relative humidity (%): 68			Ambient Temperature [°C] : 30		
RESULTS					
Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.46	<4.0 for 1 Hrs	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 R3019
9	Benzene (C ₆ H ₆)	<0.1	<5.0**	µg/m ³	IS 5182 (Part 11):2006 R2023
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/ m ³	IS 5182 (Part 12):2004 R2025
11	Arsenic (As)	<5.0	<5.0**	ng/ m ³	CPCB Guideline volume-1:2012
12	Nickel (Ni)	<6.0	<20.0**	ng/ m ³	IS 5182(Part-36):2020
REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.					
** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.					
*** Hourly Value					
Disclaimer: Information is supplied by customers represented in italic font					
EQUIPMENT CALIBRATION DETAILS					
Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
150804017	Ambient Air Sampler-B	SATPL/AM/MAA/37	ASPM/2023-24/205-14	18/03/2024	18/03/2025
150804017	Ambient Air Sampler-B	SATPL/AM/MAA/37	ASPM/2023-24/205-14	18/03/2024	18/03/2025
150804017	Ambient Air Sampler-B	SATPL/AM/MAA/37	ASPM/2023-24/205-14	18/03/2024	18/03/2025
15827	Digital Electronic Balance	SL/SMB/41	ACS/450/CM 30/230071	18/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SL/UV/34		Inhouse Calibration	
For Shreeji Aqua Treatment Pvt. Ltd.					
—End of Test Report—			Managing Director Authorized Signatory		

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

Page 2 of 2

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

Lab: 164,Shreeji Terrace Apt, Plot No. 53, Purna Nagar, Chikhali, Pune-411019

Vadodara: Plot No. 1, Shah Ind. Park-1, Vadodara-Sevit, Landepura, 391 775 Dist. Vadodra

Customer Care No.: +919225247305 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

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



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ULR NO: TCL38772500012990F

TEST REPORT

Lab Inward No. : 5L/24-25/02/MAA/3371	Date of Sampling: 20-21/02/2025
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 21/02/2025
	End of Analysis: 25/02/2025
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Report Date: 25/02/2025
	Sample Drawn By: SATPL Representative on 20-21/02/2025
Order / Reference: As per TRF dated 20/02/2025	
Monitoring For: Ambient Air Monitoring	
Sampling Procedure: As per IS 5182	
Limits: *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location: Near Mosque, Surla (N15° 29'51.67104" E74° 01'7.04532")	
Lateral Distance: 10.0 meter	Duration: 24 Hrs.
Receptor Height: 3.0 meter	Time : 11:30 am to 11:30 am
Relative humidity [%]: 68	Ambient Temperature [°C]: 30

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	9.77	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	12.65	<80.0	µg/m ³	IS 5182(Part-6)2006 R2022
3	Particulate Matter PM ₁₀	44.53	<100.0	µg/m ³	IS 5182 (Part-23)2006 R2022
4	Particulate Matter PM _{2.5}	22.46	<60.0	µg/m ³	IS 5182 (Part-24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9):R2019
6	Ammonia (NH ₃)	<14.0	<400.0	µg/m ³	IS 5182(Part-25):R2018

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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For Shreeji Aqua Treatment Pvt. Ltd.



SJM

Managing Director
Authorized Signatory

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TEST REPORT

Lab Inward No. : SL/24-25/02/MAA/337	Date of Sampling: 20-21/02/2025
Client Name : M/s. VEDANTA LIMITED VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM - GOA.	Start of analysis: 21/02/2025
	End of Analysis: 25/02/2025
	Report Date: 25/02/2025
	Sample Drawn By: SATPL Representative on 20-21/02/2025
Order / Reference: As per TRF dated 20/02/2025	
Monitoring For : Ambient Air Monitoring	
Sampling Procedure : As per IS 5182	
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location : Near Mosque,Surla (N15 ° 29'51.67104" E74 ° 01'7.04532")	
Lateral Distance : 10.0 meter	Duration : 24 Hrs.
Receptor Height : 3.0 meter	Time : 11:30 am to 11:30 am
Relative humidity (%): 68	Ambient Temperature [°C]: 30

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.42	<4.0 for 1 Hrs	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	<5.0**	µg/m ³	IS 5182 (Part 11)-2006 R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m ³	IS 5182 (Part 12)-2004 R2019
11	Arsenic (As)	<5.0	<6.0**	ng/m ³	CPCB Guideline volume-1 2012
12	Nickel (Ni)	<6.0	<20.0**	ng/m ³	IS 5182(Part-26)-2020

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
---	Ambient Air Sampler-6	SATPL/AIR/MAS/34	ASPM/2023-24/205-12	19/03/2024	18/03/2025
---	Ambient Air Sampler-6	SATPL/AIR/MAS/34	ASPM/2023-24/205-12	19/03/2024	18/03/2025
---	Ambient Air Sampler-6	SATPL/AIR/MAS/34	ASPM/2023-24/205-12	19/03/2024	18/03/2025
55627	Digital Electronic Balance	SL/SMB/R1	ACS/456/CM 30/330012	19/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SL/LN/34	---	Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
Authorized Signatory

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

Lab: 184,Shreeji Terrace Apt. Plot No. 51, Purna Nagar, Chikhali, Pune- 411019

Vadodra: Plot No.1, Shah Ind. Park-1, Vadodra-Savit, Larndepura, 391 775 Dist. Vadodra

Customer Care No.: +919229247365 Email: info@shreejiagua.com Web: www.shreejiagua.com

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



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URL NO: TC198772500012542F

TEST REPORT

Lab Inward No. : SL/24-25/03/MAA/1210		Date of Sampling: 20-21/03/2025			
Client Name : M/s. VEDANTA LIMITED		Start of analysis: 21/03/2025			
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.		End of Analysis: 25/03/2025			
		Report Date: 25/03/2025			
		Sample Drawn By: SATPL Representative on 20-21/03/2025			
Order / Reference: As per TRF dated 27/02/2025					
Monitoring For : Ambient Air Monitoring					
Sampling Procedure : As per IS 5182.					
Limits : *N.A.A.Q.S.-National Ambient Air Quality Standards.					
Sampling Location : Near Siddhartha Caves, Surli ,(N15° 29'59.82972" E74° 03'30.0162")					
Lateral Distance : 10.0 meter		Duration : 24 Hrs.			
Receptor Height : 3.0 meter		Time : 11:50 am to 11:50 am			
Relative humidity [%]: 68		Ambient Temperature [°C]: 34			
RESULTS					
Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	9.77	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	12.68	<80.0	µg/m ³	IS 5182(Part-6)2006 R2017
3	Particulate Matter PM ₁₀	58.23	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2022
4	Particulate Matter PM _{2.5}	28.28	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9):R2019
6	Ammonia (NH ₃)	<14.08	<400.0	µg/m ³	IS 5182(Part-25):R2018
REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.					
** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.					
*** Hourly Value					
Disclaimer: <i>Information is supplied by customers represented in italic font</i>					
				For Shreeji Aqua Treatment Pvt. Ltd.	
				 Managing Director Authorized Signatory	



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TEST REPORT

Lab Inward No. : SL/24-25/03/MAA/1210		Date of Sampling: 20-21/03/2025			
Client Name : M/s. VEDANTA LIMITED		Start of analysis: 21/03/2025			
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM - GOA.		End of Analysis: 25/03/2025			
		Report Date: 25/03/2025			
		Sample Drawn By: SATPL Representative on 20-21/03/2025			
Order / Reference: As per TRF dated 27/02/2025					
Monitoring For : Ambient Air Monitoring					
Sampling Procedure : As per IS 5182.					
Limits : *N.A.A.Q.S. - National Ambient Air Quality Standards.					
Sampling Location : Near Siddhartha Caves, Suria ,(N15 ° 29'S9.82972" E74° 01'30.0162")					
Lateral Distance : 10.0 meter			Duration : 24 Hrs.		
Receptor Height : 3.0 meter			Time : 11:50 am to 11:50 am		
Relative humidity [%]: 68			Ambient Temperature [°C]: 34		
RESULTS					
Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.41	<4.0 for 1 Hrs	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	<5.0**	µg/m ³	IS 5182 (Part 11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m ³	IS 5182 (Part 12):2004 R2019
11	Arsenic (As)	<1.0	<6.0**	ng/m ³	CPCB Guideline volume-1:2012
12	Nickel (Ni)	<0.5	<20.0**	ng/m ³	IS 5182(Part-26):2020
REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.					
** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.					
*** Hourly Value					
Disclaimer: Information is supplied by customers represented in italic font					
EQUIPMENT CALIBRATION DETAILS					
Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
201204136	Ambient Air Sampler 3	SATPL/AR/AAS-03/124	25021303/07	18/03/2025	17/03/2026
0307534576	Digital Electronic Balance	SATPL/WT/WL/29	ESC/2503/1801/005	15/03/2025	31/03/2026
NA	Digital Spectrophotometer Model	SATPL/WT/LM/30	—	Inhouse Calibration	

—End of Test Report—

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ULR NO: TC138772500013541F

TEST REPORT

Lab Inward No. : SL/24-25/03/MAA/121N	Date of Sampling: 20-21/03/2025
Client Name : M/s. VEDANTA LIMITED	Start of analysis: 21/03/2025
	End of Analysis: 25/03/2025
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Report Date: 25/03/2025
	Sample Drawn By: SATPL Representative on 20-21/03/2025
Order / Reference: As per TRF dated 27/02/2025	
Monitoring For: Ambient Air Monitoring	
Sampling Procedure: As per IS 5182	
Limits: *N.A.A.Q.S.-National Ambient Air Quality Standards.	
Sampling Location: Near Mosque, Surla (N15° 29'51.67104" E74° 01'7.04532")	
Lateral Distance: 10.0 meter	Duration: 24 Hrs.
Receptor Height: 3.0 meter	Time : 11:30 am to 11:30 am
Relative humidity [%]: 68	Ambient Temperature [°C]: 34

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	7.16	<80.0	µg/m ³	IS 5182(Part-2)2001 R2022
2	Nitrogen Dioxide (NO ₂)	14.53	<80.0	µg/m ³	IS 5182(Part-6)2006 R2017
3	Particulate Matter PM ₁₀	52.10	<100.0	µg/m ³	IS 5182 (Part 23)2006 R2022
4	Particulate Matter PM _{2.5}	24.53	<60.0	µg/m ³	IS 5182 (Part 24)2019
5	Ozone (O ₃)	<20.0	<180.0 For 1 Hrs	µg/m ³	IS 5182(Part-9)-R2019
6	Ammonia (NH ₃)	<14.08	<400.0	µg/m ³	IS 5182(Part-25)-R2018

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value

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For Shreeji Aqua Treatment Pvt. Ltd.



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Authorized Signatory

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TEST REPORT

Lab Inward No. : SL/24-25/03/MAA/121N	Date of Sampling: 20-21/03/2025
Client Name : M/L VEDANTA LIMITED	Start of analysis: 21/03/2025
	End of Analysis: 25/03/2025
VALUE ADDITION BUSINESS, AMONA AND NAVELIM, BICHOLIM – GOA.	Report Date: 25/03/2025
	Sample Drawn By: SATPL Representative on 20-21/03/2025

Order / Reference: As per TRF dated 27/03/2025

Monitoring For : Ambient Air Monitoring

Sampling Procedure : As per IS 5182

Limits : *N.A.A.Q.S., National Ambient Air Quality Standards.

Sampling Location : Near Mosque, Surla (N15° 29'51.67104" E74° 01'7.04532")

Lateral Distance : 10.0 meter

Duration : 24 Hrs.

Receptor Height : 3.0 meter

Time : 11:30 am to 11:30 am

Relative humidity [%]: 68

Ambient Temperature [°C] : 34

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
7	Carbon Monoxide (CO)	0.47	<4.0 for 1 Hrs	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	<5.0**	µg/m ³	IS 5182 (Part 11):2006 R2022
10	Benzo(a)Pyrene (BaP)	<0.1	<1.0**	ng/m ³	IS 5182 (Part 12):2004 R2019
11	Arsenic (As)	<1.0	<6.0**	ng/m ³	OPCS Guideline volume-1:2012
12	Nickel (NI)	<0.5	<20.0**	ng/m ³	IS 5182(Part-26):2020

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

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

*** Hourly Value


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EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
102504080	Ambient Air Sampler-2	SATPL/AR/AAS-01/123	ZS01201206	18/03/2025	17/03/2026
D307534576	Digital Electronic Balance	SATPL/WT/WL/39	PSC/2503/1801/005	15/03/2025	14/03/2026
NA	Digital Spectrophotometer Model	SATPL/WT/LM/30	—	Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.




SJM
 Managing Director
 Authorized Signatory

— End of Test Report —

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Page 2 of 2

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

Lah: 164, Shreeji Terrace Apt. Plot No. 33, Puna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No. 1, Shah Ind. Park - I, Vadodara-Savli, Landapura. 381 775 Dist. Vadodra

Customer Care No.: +91225247365 Email: info@shreejaqua.com Web: www.shreejaqua.com

Shreeji: *It is always subtle, to improve-ent for better customer satisfaction, we welcome your feedback on pune_lab@shreejaqua.com*

Annexure X
Riverine water quality reports



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ULR No.: TC138772400010105F

TEST REPORT				01/10/2024	
Sample / Report No.	SL/24-25/09/MWW/257				
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74.SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference	As per TRF Dated 26/09/2024				
Sample declaration as provided by customer :					
Nature of Sample	<i>River upstream sample (100 mtrs. upstream from discharge point)</i>				
Batch No.	NA				
Sample Drawn by	SATPL Team on 26/09/2024	Sample Received On	27/09/2024		
Start of Analysis	27/09/2024	End of Analysis	01/10/2024		
Sample Container	Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure	APHA 1060 (Part B)				
Limits	GSPCB Consent No.12/2023-PCB/1872509/RO0013366 AS per Class SW – II Waters				
Chemical Testing					
Sr.No	Parameters	Results	Limits	Unit	Method
1	pH	7.18	6.5-8.5	----	APHA, 24 th Edition 2023/ 4500-H+H
2	Dissolved Oxygen	3.7	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C
3	Turbidity	6.6	<30.0	NTU	APHA 24th edition: 2130-B: 2023
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.2	<3.0	mg/lit	IS 3025 (Part 44):2023
5	Temperature	27.8	----	°C	IS 3025(Part 9): 2023
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.					
Note: NA-Not Applicable.					
Disclaimer: <i>Information is supplied by customers represented in italic font</i>					
Verified By,				For Shreeji Aqua Treatment Pvt. Ltd.	
 Sr. Analyst				 Quality Manager 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, Marwadi, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: U4,Shreeji Terrace Apt, Plot No. 33, Purna Nagar, Chikhali, Pune-411018

Vadodara: Plot No. 1, Shree Ind. Park-1, Vadodara-East, Landopara, 391 775 Dist. Vadodra

Customer Care No.: +919225247363 Email: info@shreejaqua.com Web: www.shreejaqua.com

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TEST REPORT

01/10/2024

Sample / Report No.		SL/24-25/09/MWW/257			
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)			
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.			
Order / Reference		As per TRF Dated 26/09/2024			
Sample declaration as provided by customer :					
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)			
Batch No.		NA			
Sample Drawn by		SATPL Team on 26/09/2024	Sample Received On	27/09/2024	
Start of Analysis		27/09/2024	End of Analysis	01/10/2024	
Sample Container		Sterile Plastic Bottle	Sample Quantity	100 ml	
Sampling Procedure		IS [1622]-1981R2019			
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 A5 per Class SW - II Waters			
Biological Testing					
Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	80.0	<100.0	MPN/100 ml	IS [1622]-1981R2019
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.					
Note: NA-Not Applicable.					
Disclaimer: <i>Information is supplied by customers represented in italic font</i>					
EQUIPMENT CALIBRATION DETAILS					
Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
---	pH Meter	SL/pH-Mtr-1/01	ACS/456/CM106/230034	19/03/2024	18/03/2025
P307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	19/03/2024	18/03/2025
1022-040	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/230040	19/03/2024	18/03/2025
---	BOD Incubator	SL/BOD/21	ACS/456/CM106/230045	19/03/2024	18/03/2025
---	Oven	SL/HAD-1/03	ACS/456/CM106/230036	19/03/2024	18/03/2025
66058	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025
10242	Autoclave	SL/AC-1/26	ACS/456/CM106/230004	19/03/2024	18/03/2025
NA	UV Visible Spectrophotometer	SL/UV/34	---	In house Calibration	



Verified By,

Technical Manager

---End of Test Report---

The results relate to sample tested.

Page 2 of 2

Pune: Plot No. 5-24, H-Block, LalTosi Nagar, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra-411018.

Lab: 184,Shreeji Terrace Apt, Plot No. 31, Purna Nagar, Chinchak, Pune-411019

Vadodara: Plot No. 1, Shah Ind. Park-1, Vadodara-Jeev, Lamdepura, 391 775 Dist. Vadodra

Customer Care No.: +91 9225247363 Email: info@shreejiaqua.com Web: www.shreejiaqua.com

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ULR No.: TC138772400010104F

TEST REPORT						01/10/2024
Sample / Report No.	SL/24-25/09/MWW/256					
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)					
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.					
Order / Reference	As per TRF Dated 26/09/2024					
Sample declaration as provided by customer :						
Nature of Sample	River downstream sample (100 mtrs. downstream from discharge point)					
Hatch No.	NA					
Sample Drawn by	SATPL Team on 26/09/2024	Sample Received On	27/09/2024			
Start of Analysis	27/09/2024	End of Analysis	01/10/2024			
Sample Container	Plastic Can	Sample Quantity	02 lit.			
Sampling Procedure	APHA 1060 (Part B)					
Limits	GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters					
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.22	6.5-8.5	----	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	3.8	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	6.4	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.1	<3.0	mg/lit	IS 3025 (Part 44):2023	
5	Temperature	27.8	----	°C	IS 3025(Part 9): 2023	
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Note: NA-Not Applicable.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
Verified By,					For Shreeji Aqua Treatment Pvt. Ltd.	
Sr. Analyst					 Quality Manager 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 Digi Nagar, Wazirpur, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lulu: 164,Shreeji Terrace Apt. Plot No. 53, Purma Nagar, Chikhali, Pune-411019

Vadodara: Plot No.1, Shah Ind. Park 1, Vadodara-Sark, Landapura, 391 775 Dist. Vadodra

Customer Care No.: +919225247305 Email: info@shreejaqua.com Web: www.shreejaqua.com

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TEST REPORT						01/10/2024
Sample / Report No.		SL/24-25/09/MWW/256				
Name of Customer		M/s. YEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44.43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference		As per TRF Dated 26/09/2024				
Sample declaration as provided by customer :						
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 26/09/2024	Sample Received On	27/09/2024		
Start of Analysis		27/09/2024	End of Analysis	01/10/2024		
Sample Container		Sterile Plastic Bottle	Sample Quantity	100 ml		
Sampling Procedure		IS (1622):1981R2019				
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW - II Waters				
Biological Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	Fecal coliform	80.0	<100.0	MPN/100 ml	IS (1622):1981R2019	
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Note: NA-Not Applicable.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
EQUIPMENT CALIBRATION DETAILS						
Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail		
				Calibrated Date	Calibration Due Date	
---	pH Meter	SL/pH-Mtr-1/01	ACS/456/CM106/230034	19/03/2024	18/03/2025	
0307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	19/03/2024	18/03/2025	
1022-048	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/230043	19/03/2024	18/03/2025	
---	BOD Incubator	SL/BOD/23	ACS/456/CM106/230045	19/03/2024	18/03/2025	
---	Oven	SL/1660-1/03	ACS/456/CM106/230036	19/03/2024	18/03/2025	
66030	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025	
10242	Autoclave	SL/AE-1/26	ACS/456/CM106/230004	19/03/2024	18/03/2025	
NA	UV Visible Spectrophotometer	SL/UV/34	---	In-house Calibration		



Verified By,

(Handwritten Signature)

Technical Manager

—End of Test Report—

The results relate to sample tested.

Page 2 of 2



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ULR No.: TC138772400010340F

TEST REPORT		14/10/2024			
Sample / Report No.	SL/24-25/10/MWW/42D				
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference	As per TRF Dated 08/10/2024				
Sample declaration as provided by customer :					
Nature of Sample	<i>River upstream sample (100 mtrs. upstream from discharge point)</i>				
Batch No.	NA				
Sample Drawn by	SATPL Team on 08/10/2024	Sample Received On	09/10/2024		
Start of Analysis	09/10/2024	End of Analysis	14/10/2024		
Sample Container	Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure	APHA 1060 (Part B)				
Limits	GSPCB Consent No.12/2023-PCB/1872509/RO0013366 AS per Class SW – II Waters				
Chemical Testing					
Sr.No	Parameters	Results	Limits	Unit	Method
1	pH	7.28	6.5-8.5	----	APHA, 24 th Edition 2023/ 4500-H+B
2	Dissolved Oxygen	3.9	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C
3	Turbidity	8.1	<30.0	NTU	APHA 24th edition: 2130-B: 2023
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.0	<3.0	mg/lit	IS 3025 (Part 44):2023
5	Temperature	27.8	----	°C	IS 3025(Part 9): 2023
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.					
Note: NA-Not Applicable.					
Disclaimer: 'Information is supplied by customers represented in italic font'					
Verified By,			For Shreeji Aqua Treatment Pvt.Ltd.		
<i>Sapthi</i>			<i>Abhanay</i>		
Sr.Analyst			Quality Manager 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, LalTaji Nagar, Merwad, MIDC, Pimpri-Chinchwad, Maharashtra 411018

Lala: 154,Shreeji Terraces Apt. Plot No. 53, Parva Nagar, Chitald, Pune 411019

Vadodara: Plot No.1, Shah Ind. Park 1, Vedodara-Sarkh, Lamsdapura, 391 775 Dist. Vadodra

Customer Care No.: +910225347363 Email: info@shreejiagua.com Web: www.shreejiagua.com

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TEST REPORT						14/10/2024
Sample / Report No.		SL/24-25/10/MWW/42D				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference		As per TRF Dated 08/10/2024				
Sample declaration as provided by customer :						
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 08/10/2024	Sample Received On	09/10/2024		
Start of Analysis		09/10/2024	End of Analysis	14/10/2024		
Sample Container		Sterile Plastic Bottle		Sample Quantity	100 ml	
Sampling Procedure		IS (1622):1981R2019				
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW - II Waters				
Biological Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	Fecal coliform	80.0	<100.0	MPN/100 ml	IS (1622):1981R2019	
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.						
Note: NA-Not Applicable.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
EQUIPMENT CALIBRATION DETAILS						
Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail		
				Calibrated Date	Calibration Due Date	
-----	pH Meter	SL/pH-Mtr-1/01	ACS/456/CM106/230034	19/03/2024	19/03/2025	
0367534576	Analytical Weighing Balance	SL/AB-3/07	ACS/456/CM106/230040	19/03/2024	18/03/2025	
1022-040	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/230043	19/03/2024	18/03/2025	
-----	BOD Incubator	SL/BOD/23	ACS/456/CM106/230045	19/03/2024	18/03/2025	
-----	Oven	SL/BAO-1/03	ACS/456/CM106/230036	19/03/2024	18/03/2025	
44050	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025	
10242	Autoclave	SL/AC-1/26	ACS/456/CM106/230004	19/03/2024	18/03/2025	
NA	UV Visible Spectrophotometer	SL/UV/34	-----	In house Calibrated		
Verified by				For Shreeji Aqua Treatment Pvt. Ltd.		
Analyst				Managing Director Authorized Signatory		

—End of Test Report—

The results relate to sample tested.

Page 2 of 2



|| Shreeji ||

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ULR No.: TC138772400010339F

TEST REPORT						14/10/2024
Sample / Report No.		SL/24-25/10/MWW/42C				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference		As per TRF Dated 08/10/2024				
Sample declaration as provided by customer :						
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 08/10/2024		Sample Received On		09/10/2024
Start of Analysis		09/10/2024		End of Analysis		14/10/2024
Sample Container		Plastic Can		Sample Quantity		02 lit.
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.22	6.5-8.5	---	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	3.7	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	7.8	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	1.6	<3.0	mg/lit	IS 3025 (Part 44):2023	
5	Temperature	27.8	---	°C	IS 3025(Part 9): 2023	
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Note: NA-Not Applicable.						
Disclaimer: Information is supplied by customers represented in italic font*						
Verified By,				For Shreeji Aqua Treatment Pvt.Ltd		
Sr. Analyst				Quality Manager 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, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

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

Vadodara: Plot No.1, Shah Inl Park-1, Vadodara Savli, Landipura, 391 775 Dist. Vadodra

Customer Care No.: +918225247355 Email: info@shreejiacqua.com Web: www.shreejiacqua.com

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TEST REPORT

14/10/2024

Sample / Report No.	SL/24-25/10/MWW/42C		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)		
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAYELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.		
Order / Reference	As per TRF Dated 08/10/2024		
Sample declaration as provided by customer :			
Nature of Sample	<i>River downstream sample (100 mtrs. downstream from discharge point)</i>		
Batch No.	NA		
Sample Drawn by	SATPL Team on 08/10/2024	Sample Received On	09/10/2024
Start of Analysis	09/10/2024	End of Analysis	14/10/2024
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	IS (1622)-1981R2019		
Limits	GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW - II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	80.0	<100.0	MPN/100 ml	IS (1622)-1981R2019

REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.

Note: NA-Not Applicable.

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	SL/pH-Mtr-1/01	ACS/436/CM106/230034	19/03/2024	18/03/2025
D307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/436/CM106/230040	19/03/2024	18/03/2025
1022-048	COD Digestion Apparatus	SL/COD-1/10	ACS/436/CM106/230043	19/03/2024	18/03/2025
---	BOD Incubator	SL/BOD/23	ACS/436/CM106/230045	19/03/2024	18/03/2025
---	Oven	SL/HAO-1/03	ACS/436/CM106/230036	19/03/2024	18/03/2025
66050	Water Bath	SL/WB/08	ACS/436/CM106/230041	19/03/2024	18/03/2025
10242	Autoclave	SL/AC-1/26	ACS/436/CM106/230004	19/03/2024	18/03/2025
NA	UV Visible Spectrophotometer	SL/UV/24	---	In House Calibration	

Verified by


Analyst


For Shreeji Aqua Treatment Pvt. Ltd.


SJM
Managing Director
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

Page 2 of 2



|| Shreeji ||

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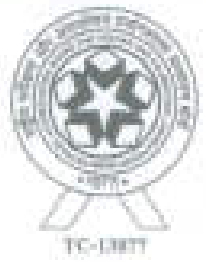
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ULR No.: TC138772400010604F

TEST REPORT						29/10/2024
Sample / Report No.		SL/24-25/10/MFW/105W				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference		As per TRF Dated 24/10/2024				
Sample declaration as provided by customer :						
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 24/10/2024		Sample Received On		25/10/2024
Start of Analysis		25/10/2024		End of Analysis		29/10/2024
Sample Container		Plastic Can		Sample Quantity		02 lit.
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.26	6.5-8.5	----	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	3.8	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	6.5	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.2	<3.0	mg/lit	IS 3025 (Part 44):2023	
5	Temperature	27.7	----	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given river upstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
Verified By,				For Shreeji Aqua Treatment Pvt. Ltd.		
Sr. Analyst				Quality Manager Authorized Signatory		

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

Page 1 of 2

Parent: Plot No. B-34, H Block, Lal Tapa Nagar, Anandwadi, WDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184,Shreeji Terrace Apt. Plot No. 33, Parra Nagar, Chikhali, Pune-411019

Vadodara: Plot No.7, Shah Ind. Park-1, Vadodara-Savli, Landajpara. 391 775 Dist. Vadodra

Customer Care No:- +919220247363 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

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

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TEST REPORT

29/10/2024

Sample / Report No.	SL/24-25/10/MFW/105W		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)		
Address of Customer	[WASTE HEAT RECOVERY POWER PLANT - I] SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.		
Order / Reference	As per TRF Dated 24/10/2024		
Sample declaration as provided by customer :			
Nature of Sample	River upstream sample (100 mtrs. upstream from discharge point)		
Batch No.	NA		
Sample Drawn by	SATPL Team on 24/10/2024	Sample Received On	25/10/2024
Start of Analysis	25/10/2024	End of Analysis	29/10/2024
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	IS (1622):1981R2019		
Limits	GSPCB Consent No.12/2023-PCB/1872509/R00013366 A5 per Class SW – II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	60.0	<100.0	MPN/100 ml	IS (1622):1981R2019

Note: NA-Not Applicable.

REMARK: Reference to above testing parameters, given River upstream 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	SL/pH-Mtr-1/01	ACS/456/CM106/210014	19/03/2024	18/03/2025
D307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/210040	19/03/2024	18/03/2025
1023-048	COD Digestion Apparatus	SL/COD-3/10	ACS/456/CM106/210043	19/03/2024	18/03/2025
---	BOD Incubator	SL/BOD/23	ACS/456/CM106/210045	19/03/2024	18/03/2025
---	Oven	SL/1040-1/03	ACS/456/CM106/210036	19/03/2024	18/03/2025
66030	Water Bath	SL/WB/08	ACS/456/CM106/210041	19/03/2024	18/03/2025
10242	Autoclave	SL/AC-1/26	ACS/456/CM106/210064	19/03/2024	18/03/2025
NA	UV Visible Spectrophotometer	SL/UV/34	---	In house Calibration	

Checked By,

Sr. Analyst



Verified By,

Technical Manager

—End of Test Report—

The results relate to sample tested.

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ULR No.: TC138772400010603F

TEST REPORT				29/10/2024	
Sample / Report No.		SL/24-25/10/MFW/105V			
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)			
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.			
Order / Reference		As per TRF Dated 24/10/2024			
Sample declaration as provided by customer :					
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)			
Batch No.		NA			
Sample Drawn by		SATPL Team on 24/10/2024	Sample Received On	25/10/2024	
Start of Analysis		25/10/2024		End of Analysis	29/10/2024
Sample Container		Plastic Can		Sample Quantity	02 lit.
Sampling Procedure		APHA 1060 (Part B)			
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters			
Chemical Testing					
Sr.No	Parameters	Results	Limits	Unit	Method
1	pH	7.36	6.5-8.5	---	APHA, 24 th Edition 2023/ 4500-H+B
2	Dissolved Oxygen	3.9	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C
3	Turbidity	6.8	<30.0	NTU	APHA 24th edition: 2130-B: 2023
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.3	<3.0	mg/lit	IS 3025 (Part 44):2023
5	Temperature	27.7	---	°C	IS 3025(Part 9): 2023
Note: NA-Not Applicable.					
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.					
Disclaimer: <i>Information is supplied by customers represented in italic font</i>					
Verified By,		For Shreeji Aqua Treatment Pvt. Ltd.			
Sr. Analyst		Quality Manager Authorized Signatory			

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TEST REPORT						29/10/2024
Sample / Report No.		SL/24-25/10/MFW/105V				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - J) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference		As per TRF Dated 24/10/2024				
Sample declaration as provided by customer :						
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 24/10/2024	Sample Received On	25/10/2024		
Start of Analysis		25/10/2024	End of Analysis	29/10/2024		
Sample Container		Sterile Plastic Bottle	Sample Quantity	100 ml		
Sampling Procedure		IS (1622):1981R2019				
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters				
Biological Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	Fecal coliform	60.0	<100.0	MPN/100 ml	IS (1622):1981R2019	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River-downstream 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	SL/pH-Mtr-1/01	ACS/456/CM106/230024	19/03/2024	18/03/2025	
D307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	19/03/2024	18/03/2025	
1023-04H	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/230043	19/03/2024	18/03/2025	
	BOD Incubator	SL/BOD/21	ACS/456/CM106/230045	19/03/2024	18/03/2025	
	Oven	SL/HAD-1/03	ACS/456/CM106/230036	19/03/2024	18/03/2025	
66050	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025	
18242	Autoclave	SL/AC-1/26	ACS/456/CM106/230004	19/03/2024	18/03/2025	
NA	UV Visible Spectrophotometer	SL/UV/34	-----	In-house Calibration		
Checked By:				Verified By:		
Sr. Analyst				Technical Manager		

—End of Test Report—

The results relate to sample tested.

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TEST REPORT

12/11/2024

Sample / Report No.	SL/24-25/11/MWW/60c		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)		
Address of Customer	WASTE HEAT RECOVERY POWER PLANT – I SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.		
Order / Reference	As per TRF Dated 07/11/2024		
Sample declaration as provided by customer :			
Nature of Sample	River upstream sample (100 mtrs. upstream from discharge point)		
Batch No.	NA		
Sample Drawn by	SATPL Team on 07/11/2024	Sample Received On	08/11/2024
Start of Analysis	08/11/2024	End of Analysis	12/11/2024
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	APHA 1060 (Part B)		
Limits	GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	90.0	<100.0	MPN/100 ml	IS (1622):1981R2019

Note: NA-Not Applicable.

REMARK: Reference to above testing parameters, given River upstream 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	SL/pH-Mtr-1/01	ACS/456/CM106/230034	19/03/2024	18/03/2025
D307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	19/03/2024	18/03/2025
1021-048	COD Digestion Apparatus	SL/CDD-1/10	ACS/456/CM106/230043	19/03/2024	18/03/2025
---	BOD Incubator	SL/BDO/23	ACS/456/CM106/230045	19/03/2024	18/03/2025
---	Oven	SL/HAO-1/03	ACS/456/CM106/230036	19/03/2024	18/03/2025
64050	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025
10242	Autoclave	SL/AC/126	ACS/456/CM106/230004	19/03/2024	18/03/2025

Checked by

Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

SJM
Managing Director
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

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ULR No.: TC138772400011112F

TEST REPORT						12/11/2024
Sample / Report No.		SL/24-25/11/MWW/60z				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.				
Order / Reference		As per TRF Dated 07/11/2024				
Sample declaration as provided by customer :						
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 07/11/2024	Sample Received On	08/11/2024		
Start of Analysis		08/11/2024	End of Analysis	12/11/2024		
Sample Container		Plastic Can	Sample Quantity	02 ltr.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.36	6.5-8.5	—	APHA, 24 th Edition 2023/ 4500-H+H	
2	Dissolved Oxygen	3.8	<4.0	mg/ltr	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	7.8	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.2	<3.0	mg/ltr	IS 3025 (Part 44):2023	
5	Temperature	27.9	—	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
Review By,		For Shreeji Aqua Treatment Pvt.Ltd.				
						
Sr. Analyst				Quality Manager Authorized Signatory		

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|| Shreeji ||

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ULR No.: TC138772400011113F

TEST REPORT						12/11/2024
Sample / Report No.		SL/24-25/11/MWW/60aa				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.				
Order / Reference		As per TRF Dated 07/11/2024				
Sample declaration as provided by customer :						
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 07/11/2024	Sample Received On	08/11/2024		
Start of Analysis		08/11/2024	End of Analysis	12/11/2024		
Sample Container		Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.29	6.5-8.5	—	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	3.9	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	7.4	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.5	<3.0	mg/lit	IS 3025 (Part 44):2023	
5	Temperature	27.9	—	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Disclaimer: 'Information is supplied by customers represented in italic font'						
Review By,				For Shreeji Aqua Treatment Pvt.Ltd.		
Sr. Analyst				Quality Manager 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, Midc, Pimpri-Chinchwad, Maharashtra 411018.

Late: 164,Shreeji Terrace Apt, Plot No.53, Purna Nagar, Chikhali, Pune-411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vidodara-Sevk, Landapura. 391 775 Dist. Vadodra

Customer Care No: +918225247365 Email: info@shreejiacqua.com Web: www.shreejiacqua.com

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



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TEST REPORT

12/11/2024

Sample / Report No.	SL/24-25/11/MWW/60aa		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)		
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.		
Order / Reference	As per TRF Dated 07/11/2024		
Sample declaration as provided by customer :			
Nature of Sample	<i>River downstream sample (100 mtrs. downstream from discharge point)</i>		
Batch No.	NA		
Sample Drawn by	SATPL Team on 07/11/2024	Sample Received On	08/11/2024
Start of Analysis	08/11/2024	End of Analysis	12/11/2024
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	APHA 1060 (Part B)		
Limits	GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	90.0	<100.0	MPN/100 ml	IS (1622) :1981R2019

Note: NA-Not Applicable.

REMARK: Reference to above testing parameters, given River downstream 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	SL/pH-Mtr-1/01	ACS/456/CM106/230004	19/03/2024	18/03/2025
0307334576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	18/03/2024	18/03/2025
1022-048	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/230043	19/03/2024	18/03/2025
—	BOD Incubator	SL/BOD/23	ACS/456/CM106/230045	19/03/2024	18/03/2025
—	Oven	SL/HAD-1/03	ACS/456/CM106/230038	19/03/2024	18/03/2025
56050	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025
10242	Autoclave	SL/AC/126	ACS/456/CM106/230004	19/03/2024	18/03/2025

Checked by

Rajesh
Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

SJM
Managing Director
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

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**SHREEJI AQUA TREATMENT PVT. LTD.**

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ULR No.: TC138772400011147F

TEST REPORT						02/12/2024
Sample / Report No.		SI/24-25/11/MWW/154F				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference		As per TRF Dated 26/11/2024				
Sample declaration as provided by customer :						
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 26/11/2024	Sample Received On	27/11/2024		
Start of Analysis		27/11/2024	End of Analysis	02/12/2024		
Sample Container		Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No.12/2023-PCB/1872509/RO0013366 AS per Class SW - II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.20	6.5-8.5	---	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	3.7	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	6.7	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.3	<3.0	mg/lit	IS 3025 (Part 44):2023	
5	Temperature	27.6	---	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
Review By,		For Shreeji Aqua Treatment Pvt.Ltd.				
						
Sr.Analyst				Quality Manager Authorized Signatory		

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TEST REPORT

02/12/2024

Sample / Report No.	SL/24-25/11/MWW/154F		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)		
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.		
Order / Reference	As per TRF Dated 26/11/2024		
Sample declaration as provided by customer :			
Nature of Sample	<i>River upstream sample (100 mtrs. upstream from discharge point)</i>		
Batch No.	NA		
Sample Drawn by	SATPL Team on 26/11/2024	Sample Received On	27/11/2024
Start of Analysis	27/11/2024	End of Analysis	02/12/2024
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	IS (1622):1981R2019		
Limits	GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW - II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	80.0	<100.0	MPN/100 ml	IS (1622):1981R2019

Note: NA-Not Applicable.

REMARK: Reference to above testing parameters, given River upstream 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	SL/pH-Mtr-1/01	ACS/456/CM106/230034	19/03/2024	18/03/2025
D307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	19/03/2024	18/03/2025
3022-048	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/230043	19/03/2024	18/03/2025
-----	BOD Incubator	SL/BOD/21	ACS/456/CM106/230045	19/03/2024	18/03/2025
-----	Oven	SL/HAO-1/03	ACS/456/CM106/230036	19/03/2024	18/03/2025
66030	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025
10242	Autoclave	SL/AC-1/26	ACS/456/CM106/230004	19/03/2024	18/03/2025

Checked by

[Signature]

Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

SJM
Managing Director
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

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ULR No.: TC138772400011146F

TEST REPORT						02/12/2024
Sample / Report No.		SL/24-25/11/MWW/154E				
Name of Customer		M/s. YEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		[WASTE HEAT RECOVERY POWER PLANT - I] SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74, SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference		As per TRF Dated 26/11/2024				
Sample declaration as provided by customer :						
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 26/11/2024		Sample Received On 27/11/2024		
Start of Analysis		27/11/2024		End of Analysis 02/12/2024		
Sample Container		Plastic Can		Sample Quantity 02 lit.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.29	6.5-8.5	---	APHA, 24 th Edition 2023/ 4500-II+B	
2	Dissolved Oxygen	3.6	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	6.4	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.6	<3.0	mg/lit	IS 3025 (Part 44):2023	
5	Temperature	27.6	---	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
Review By,				For Shreeji Aqua Treatment Pvt.Ltd.		
Sr.Analyst				Quality Manager Authorized Signatory		

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TEST REPORT				02/12/2024	
Sample / Report No.	SL/24-25/11/MWW/154E				
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference	As per TRF Dated 26/11/2024				
Sample declaration as provided by customer :					
Nature of Sample	<i>River downstream sample (100 mtrs. downstream from discharge point)</i>				
Batch No.	NA				
Sample Drawn by	SATPL Team on 26/11/2024	Sample Received On	27/11/2024		
Start of Analysis	27/11/2024	End of Analysis	02/12/2024		
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml		
Sampling Procedure	IS (1622):1981R2019				
Limits	GSPCB Consent No.12/2023-PCB/1872509/R00013366 A5 per Class SW - II Waters				

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	80.0	<100.0	MPN/100-ml	IS (1622):1981R2019

Note: NA-Not Applicable.

REMARK: Reference to above testing parameters, given River downstream 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	SL/pH-Mtr-1/01	ACS/456/CM106/210034	19/03/2024	18/03/2025
0307334576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/210040	19/03/2024	18/03/2025
1822-048	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/210043	19/03/2024	18/03/2025
---	BOD Incubator	SL/BOD/23	ACS/456/CM106/210045	19/03/2024	18/03/2025
---	Oven	SL/BAO-1/03	ACS/456/CM106/210036	19/03/2024	18/03/2025
66058	Water Bath	SL/WB/08	ACS/456/CM106/210041	19/03/2024	18/03/2025
10242	Autoclave	SL/AC-1/26	ACS/456/CM106/210009	19/03/2024	18/03/2025

Checked by

Rajendra P
Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

SJM
Managing Director
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

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ULR No.: TC138772400011623F

TEST REPORT				11/12/2024	
Sample / Report No.	SL/24-25/12/MWW/74x				
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVEJIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference	As per TRF Dated 06/12/2024				
Sample declaration as provided by customer :					
Nature of Sample	River upstream sample (100 mtrs. upstream from discharge point)				
Batch No.	NA				
Sample Drawn by	SATPL Team on 06/12/2024	Sample Received On	07/12/2024		
Start of Analysis	07/12/2024	End of Analysis	11/12/2024		
Sample Container	Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure	APHA 1060 (Part B)				
Limits	GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW - II Waters				
Chemical Testing					
Sr.No	Parameters	Results	Limits	Unit	Method
1	pH	7.27	6.5-8.5	----	APHA, 24 th Edition 2023/ 4500-H+B
2	Dissolved Oxygen	3.7	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C
3	Turbidity	7.2	<30.0	NTU	APHA 24th edition: 2130-B: 2023
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.3	<3.0	mg/lit	IS 3025 (Part 44):2023
5	Temperature	27.7	----	°C	IS 3025(Part 9): 2023
Note: NA-Not Applicable.					
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.					
Disclaimer: <i>Information is supplied by customers represented in italic font</i>					
		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 2

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

Lah: 1&A Shreeji Terrace Apt. Plot No. 52, Purni Nagar, Chikhali, Pune 411019

Vadodara: Plot No.1, Shah Jee Park I, Vadodara Swati, Laxmapara-391 379 Dist. Vadodra

Customer Care Mail: +919025247345. Email: info@shreeji-aqua.com. Web: www.shreeji-aqua.com

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



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TEST REPORT

11/12/2024

Sample / Report No.	SL/24-25/12/MWW/74x		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)		
Address of Customer	[WASTE HEAT RECOVERY POWER PLANT – I] SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74.SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.		
Order / Reference	As per TRF Dated 06/12/2024		
Sample declaration as provided by customer :			
Nature of Sample	<i>River upstream sample (100 mtrs. upstream from discharge point)</i>		
Batch No.	NA		
Sample Drawn by	SATPL Team on 06/12/2024	Sample Received On	07/12/2024
Start of Analysis	07/12/2024	End of Analysis	11/12/2024
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml.
Sampling Procedure	APHA 1060 (Part B)		
Limits	GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	80.0	<100.0	MPN/100 ml	IS (1622)-1981R2019

REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.

Note: NA-Not Applicable.

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	SL/pH-Mtr-1/01	ACS/456/CM106/230034	19/03/2024	18/03/2025
0397534576	Analytical Weighing Balance	SL/AB-3/07	ACS/456/CM106/230040	19/03/2024	18/03/2025
1823-048	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/230043	19/03/2024	18/03/2025
---	BOD Incubator	SL/BOD/23	ACS/456/CM106/230043	19/03/2024	18/03/2025
---	Oven	SL/HAD-1/03	ACS/456/CM106/230036	19/03/2024	18/03/2025
66050	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025
10242	Autoclave	SL/AC/326	ACS/456/CM106/230004	19/03/2024	18/03/2025

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

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

The results relate to sample tested.

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|| Shreeji ||

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ULR No.: TC138772400011622F

TEST REPORT				11/12/2024	
Sample / Report No.		SL/24-25/12/MWW/74w			
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)			
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.			
Order / Reference		As per TRF Dated 06/12/2024			
Sample declaration as provided by customer :					
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)			
Batch No.		NA			
Sample Drawn by		SATPL Team on 06/12/2024	Sample Received On		07/12/2024
Start of Analysis		07/12/2024	End of Analysis		11/12/2024
Sample Container		Plastic Can	Sample Quantity		02 lit.
Sampling Procedure		APHA 1060 (Part B)			
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters			
Chemical Testing					
Sr.No	Parameters	Results	Limits	Unit	Method
1	pH	7.19	6.5-8.5	—	APHA, 24 th Edition 2023/ 4500-H+8
2	Dissolved Oxygen	3.6	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C
3	Turbidity	6.8	<30.0	NTU	APHA 24th edition: 2130-B: 2023
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.8	<3.0	mg/lit	IS 3025 (Part 44):2023
5	Temperature	27.7	—	°C	IS 3025(Part 9): 2023
Note: NA-Not Applicable.					
REMARK: Reference to above testing parameters, given river downstream sample is within the prescribed limit.					
Disclaimer: <i>Information is supplied by customers represented in italic font</i>					
			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 2

Pune: PCE No. 9-24, H Block, Lal Taji Nagar, Mirambak, MIDC, Pimpri-Chinchwad, Maharashtra 411016.

Lah: 164,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhat, Pune-411019

Vadodra: Plot No.1, Shree Ind. Park-1, Vaidodra-Savli, Lumbignava-391 775 Dist. Vadodra

Customer Care No.: +919222247365 Email: info@shreeji-aqua.com, Web: www.shreeji-aqua.com

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TEST REPORT

11/12/2024

Sample / Report No.	SL/24-25/12/MWW/74w		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION)		
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.		
Order / Reference	As per TRF Dated 06/12/2024		
Sample declaration as provided by customer :			
Nature of Sample	River downstream sample (100 mtrs. downstream from discharge point)		
Batch No.	NA		
Sample Drawn by	SATPL Team on 06/12/2024	Sample Received On	07/12/2024
Start of Analysis	07/12/2024	End of Analysis	11/12/2024
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	APHA 1060 (Part B)		
Limits	GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	BD.0	<100.0	MPN/100 ml	IS (1622)-1981R2019

Note: NA-Not Applicable.

REMARK: Reference to above testing parameters, given River downstream 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	SL/pH-Mtr-1/03	ACS/456/CM106/230034	18/03/2024	18/03/2025
D307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	18/03/2024	18/03/2025
3023-048	COD Digestion Apparatus	SL/COD-0/30	ACS/456/CM106/230043	18/03/2024	18/03/2025
—	BOD Incubator	SL/BOD/23	ACS/456/CM106/230045	18/03/2024	18/03/2025
—	Oven	SL/HAO-0/03	ACS/456/CM106/230030	18/03/2024	18/03/2025
66050	Water Bath	SL/WB/08	ACS/456/CM106/230041	18/03/2024	18/03/2025
30242	Autoclave	SL/AC/126	ACS/456/CM106/230034	18/03/2024	18/03/2025

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
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, Marwadi, 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-Sevli, Larnajpura, 391 775 Dist: Vadodra

Customer Care No.: +919225247305 Email: info@shreejiagua.com Web: www.shreejiagua.com

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

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TEST REPORT						28/12/2024	
Sample / Report No.		SL/24-25/12/MFW/128Aa					
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)					
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.					
Order / Reference		As per TRF Dated 23/12/2024					
Sample declaration as provided by customer :							
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)					
Batch No.		NA					
Sample Drawn by		SATPL Team on 23/12/2024		Sample Received On		24/12/2024	
Start of Analysis		24/12/2024		End of Analysis		28/12/2024	
Sample Container		Sterile Plastic Bottle		Sample Quantity		100 ml	
Sampling Procedure		IS (1622)-1981R2019					
Limits		GSPCB Consent No.12/2023-PCB/1872S09/R00013366 AS per Class SW - II Waters					
Biological Testing							
Sr.No	Parameters	Results	Limits	Unit	Method		
1	Fecal coliform	90.0	<100.0	MPN/100 ml	IS (1622)-1981R2019		
Note: NA-Not Applicable.							
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.							
Disclaimer: <i>Information is supplied by customers represented in italic font</i>							
EQUIPMENT CALIBRATION DETAILS							
Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail			
				Calibrated Date	Calibration Due Date		
—	pH Meter	SL/pH-Mtr-1/01	ACS/456/CM106/230034	19/03/2024	18/03/2025		
D307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	19/03/2024	18/03/2025		
1023-040	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/230043	19/03/2024	18/03/2025		
—	BOD Incubator	SL/BOD/23	ACS/456/CM106/230045	19/03/2024	18/03/2025		
—	Oven	SL/HMO-1/03	ACS/456/CM106/230036	19/03/2024	18/03/2025		
66050	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025		
10242	Autoclave	SL/AC-1/08	ACS/456/CM106/230034	19/03/2024	18/03/2025		
For Shreeji Aqua Treatment Pvt. Ltd.							
				SJM Managing Director Authorized Signatory			

—End of Test Report—

The results relate to sample tested.

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ULR No.: TC138772400011702F

TEST REPORT						28/12/2024
Sample / Report No.		SL/24-25/12/MFW/128Aa				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM GOA.				
Order / Reference		As per TRF Dated 23/12/2024				
Sample declaration as provided by customer :						
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 23/12/2024	Sample Received On		24/12/2024	
Start of Analysis		24/12/2024	End of Analysis		28/12/2024	
Sample Container		Plastic Can	Sample Quantity		02 lit.	
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.24	6.5-8.5	----	APHA, 24 th Edition 2023/ 4500-H- B	
2	Dissolved Oxygen	3.9	<4.0	mg/lit	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	7.5	<30.0	NTU	APHA 24th edition; 2130-B; 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.5	<3.0	mg/lit	IS 3025 (Part 44):2023	
5	Temperature	27.8	---	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
			For Shreeji Aqua Treatment Pvt. Ltd.			
			SJM Managing Director Authorized Signatory			

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Page 1 of 2

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

Lab: 16A,Shreeji Terrace Apt. Flat No. 53, Punsa Nagar, Chinchwad, Pune-411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-GevC, Lamsidpur. 381 775 Dist. Vadodra

Customer Care No.: +91 9225241300 Email: info@shreejiagua.com Web: www.shreejiagua.com

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ULR No.: TC138772400011701F

TEST REPORT						28/12/2024
Sample / Report No.		SL/24-25/12/MFW/128AZ				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74, SURVEY NO. 207 (PART) OF NAYELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM GOA.				
Order / Reference		As per TRF Dated 23/12/2024				
Sample declaration as provided by customer :						
Nature of Sample		<i>River downstream sample (100 mtrs. downstream from discharge point)</i>				
Batch No.		NA				
Sample Drawn by		SATPL Team on 23/12/2024	Sample Received On	24/12/2024		
Start of Analysis		24/12/2024	End of Analysis	28/12/2024		
Sample Container		Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW - II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.16	6.5-8.5	---	APHA, 24 th Edition 2023 / 4500-H+B	
2	Dissolved Oxygen	3.8	<4.0	mg/lit	APHA, 24 th Edition 2023 / 4500-B&C	
3	Turbidity	7.1	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.3	<3.0	mg/lit.	IS 3025 (Part 44):2023	
5	Temperature	27.8	---	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
			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 2

Phone: TNA No. 8-24, H Block, Lal Topi Nagar, Marve/WL, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 164,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chhatrapati, Pune 411018

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

Customer Care No.: +919225247305 Email: info@shreejiagua.com Web: www.shreejiagua.com

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TEST REPORT						28/12/2024
Sample / Report No.		SL/24-25/12/MFW/128AZ				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference		As per TRF Dated 23/12/2024				
Sample declaration as provided by customer :						
Nature of Sample		<i>River downstream sample (100 mtrs. downstream from discharge point)</i>				
Batch No.		NA				
Sample Drawn by		SATPL Team on 23/12/2024		Sample Received On		24/12/2024
Start of Analysis		24/12/2024		End of Analysis		28/12/2024
Sample Container		Sterile Plastic Bottle		Sample Quantity		100 ml
Sampling Procedure		IS (1622):1981R2019				
Limits		G5PCB Consent No.12/2023-PCB/1872509/R00013366 AS per Class SW – II Waters				
Biological Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	Fecal coliform	90.0	<100.0	MPN/100 ml	IS (1622): 1981R2019	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
EQUIPMENT CALIBRATION DETAILS						
Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail		
				Calibrated Date	Calibration Due Date	
—	pH Meter	SL/pH-Mtr-1/01	ACS/456/CM106/230034	19/03/2024	18/03/2025	
D387534576	Analytical Weighing Balance	SL/AB-3/07	ACS/456/CM106/230040	19/03/2024	18/03/2025	
1022-040	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/230043	19/03/2024	18/03/2025	
—	BOD Incubator	SL/BOD/23	ACS/456/CM106/230045	19/03/2024	18/03/2025	
—	Oven	SL/OAD-1/03	ACS/456/CM106/230036	19/03/2024	18/03/2025	
66030	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025	
10242	Autoclave	SL/AC-1/26	ACS/456/CM106/230094	19/03/2024	18/03/2025	
For Shreeji Aqua Treatment Pvt. Ltd.						
				SJM Managing Director Authorized Signatory		

—End of Test Report—

The results relate to sample tested.

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ULR No.: TC138772500012214F

TEST REPORT						14/01/2025
Sample / Report No.		SL/24-25/01/MWW/52n				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION I)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.				
Order / Reference		As per TRF Dated 09/01/2025				
Sample declaration as provided by customer :						
Nature of Sample		<i>River upstream sample (100 mtrs. upstream from discharge point)</i>				
Batch No.		NA				
Sample Drawn by		SATPL Team on 09/01/2025	Sample Received On	10/01/2025		
Start of Analysis		10/01/2025	End of Analysis	14/01/2025		
Sample Container		Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No. 12/2024-PCB/230515R/R00015723 AS per Class SW - II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.20	6.5-8.5	—	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	3.6	<4.0	mg/L	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	8.4	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.3	<3.0	mg/L	IS 3025 (Part 44):2023	
5	Temperature	27.9	—	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
				For Shreeji Aqua Treatment Pvt. Ltd.		
				SJM		
				Managing Director Authorized Signatory		

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Page 1 of 2

Phone: Plot No. B-28, H Block, Lal Topi Nagar, Marrowadi, MIDC, Pimpri-Chinchwad, Maharashtra 411019.

Lab: 1st, Shreeji Terrace Apt. Plot No. 55, Purna Nagar, Chikhali, Pune-411019

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

Customer Care No.: +919225247968 Email: info@shreejaqua.com Web: www.shreejaqua.com

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TEST REPORT						14/01/2025
Sample / Report No.		SL/24-25/01/MWW/52h				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION I)				
Address of Customer		WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO: 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.				
Order / Reference		As per TRF Dated 09/01/2025				
Sample declaration as provided by customer :						
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 09/01/2025		Sample Received On	10/01/2025	
Start of Analysis		10/01/2025		End of Analysis	14/01/2025	
Sample Container		Sterile Plastic Bottle		Sample Quantity	100 ml	
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No. 12/2024-PCB/2305158/900015723 AS per Class SW – II Waters				
Biological Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	Fecal coliform	90.0	<100.0	MPN/100 ml	IS (1622):1981R2019	
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.						
Note: NA-Not Applicable.						
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	SL/pH-Mtr-1/01	ACS/456/CM106/230034	19/03/2024	18/03/2025	
0907534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	19/03/2024	18/03/2025	
1023-048	COD Digestion Apparatus	SL/COD-V/10	ACS/456/CM106/230043	19/03/2024	18/03/2025	
---	BOD Incubator	SL/BOD/23	ACS/456/CM106/230045	19/03/2024	18/03/2025	
---	Oven	SL/HAO-V/03	ACS/456/CM106/230036	19/03/2024	18/03/2025	
99090	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025	
10242	Autoclave	SL/AC/126	ACS/456/CM106/230004	19/03/2024	18/03/2025	
For Shreeji Aqua Treatment Pvt. Ltd.						
						
Managing Director Authorized Signatory						

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The results relate to sample tested.

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ULR No.: TC138772500012213F

TEST REPORT						14/01/2025
Sample / Report No.		SL/24-25/01/MWW/52m				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION I)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.				
Order / Reference		As per TRF Dated 09/01/2025				
Sample declaration as provided by customer :						
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 09/01/2025	Sample Received On	10/01/2025		
Start of Analysis		10/01/2025	End of Analysis	14/01/2025		
Sample Container		Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		IGSPCB Consent No. 12/2024-PCB/2305158/R00015723 AS per Class 5W – II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.12	6.5-8.5	—	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	3.8	<4.0	mg/L	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	7.2	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.6	<3.0	mg/L	IS 3025 (Part 44): 2023	
5	Temperature	27.9	—	°C	IS 3025(Part 9)- 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
For Shreeji Aqua Treatment Pvt. Ltd.						
						
 Managing Director Authorized Signatory						

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

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

Vadodara: Plot No.1, Shree Ind. Park-1, Vadodara-Sovli, Laxmipura, 391 725 Dist. Vadodra

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

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TEST REPORT						14/01/2025
Sample / Report No.		SL/24-25/01/MWW/S2m				
Name of Customer		M/s. VEDANTA LIMITED (MET CORE DIVISION I)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMDNA VILLAGE, BICHOLIM – GOA.				
Order / Reference		As per TRF Dated 09/01/2025				
Sample declaration as provided by customer :						
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 09/01/2025		Sample Received On		10/01/2025
Start of Analysis		10/01/2025		End of Analysis		14/01/2025
Sample Container		Sterile Plastic Bottle		Sample Quantity		100 ml
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No. 12/2024-PCB/2305358/R00015723 AS per Class SW – II Waters.				
Biological Testing						
Sr.No.	Parameters	Results	Limits	Unit	Method	
1	Fecal coliform	90.0	<300.0	MPN/100 ml	IS(1632):1981R2019	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
EQUIPMENT CALIBRATION DETAILS						
Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail		
				Calibrated Date	Calibration Due Date	
—	pH Meter	SL/pH-Mtr-1/01	ACS/416/CM106/230004	18/03/2024	18/03/2025	
0307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	18/03/2024	18/03/2025	
1003-048	COD Digestion Apparatus	SL/COD-I/10	ACS/456/CM106/230043	18/03/2024	18/03/2025	
—	BOD Incubator	SL/BOD/23	ACS/456/CM106/230048	18/03/2024	18/03/2025	
—	Oven	SL/HAO-103	ACS/456/CM106/230036	18/03/2024	18/03/2025	
66050	Water Bath	SL/WB/08	ACS/456/CM106/230041	18/03/2024	18/03/2025	
10042	Autoclave	SL/AC/136	ACS/456/CM106/230004	18/03/2024	18/03/2025	
For Shreeji Aqua Treatment Pvt. Ltd.						
						
				Managing Director Authorized Signatory		

—End of Test Report—

The results relate to sample tested.

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ULR No.: TC138772500012229F

TEST REPORT				03/02/2025	
Sample / Report No.:		SL/24-25/01/MFW/1248			
Name of Customer:		M/s. VEDANTA LIMITED (MET COKE DIVISION II)			
Address of Customer:		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMDNA VILLAGE, BICHOLIM - GOA.			
Order / Reference:		As per TRF Dated 28/01/2025			
Sample declaration as provided by customer :					
Nature of Sample:		River upstream sample (100 mtrs. upstream from discharge point)			
Batch No.:		NA			
Sample Drawn by:		SATPL Team on 28/01/2025	Sample Received On:	29/01/2025	
Start of Analysis:		29/01/2025	End of Analysis:	03/02/2025	
Sample Container:		Plastic Can	Sample Quantity:	02 ltr.	
Sampling Procedure:		APHA 1060 (Part B)			
Limits:		GSPCB Consent No. 12/2024-PCB/2305158/R00015723 AS per Class SW - II Waters			
Chemical Testing					
Sr.No	Parameters	Results	Limits	Unit	Method
1	pH	7.34	6.5-8.5	---	APHA, 24 th Edition 2023/ 4500-H+B
2	Dissolved Oxygen	3.6	<4.0	mg/L	APHA, 24 th Edition 2023/ 4500-B&C
3	Turbidity	8.8	<30.0	NTU	APHA 24th edition: 2130-B: 2023
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.5	<3.0	mg/L	IS 3025 (Part 44):2023
5	Temperature	27.8	---	°C	IS 3025(Part 9): 2023
Note: NA-Not Applicable.					
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.					
Disclaimer: <i>Information is supplied by customers represented in italic font</i>					
				For Shreeji Aqua Treatment Pvt. Ltd.  Managing Director Authorized Signatory	

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TEST REPORT						03/02/2025
Sample / Report No.		SL/24-25/01/MFW/1248				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION I)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 43/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.				
Order / Reference		As per TRF Dated 28/01/2025				
Sample declaration as provided by customer :						
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 28/01/2025		Sample Received On		29/01/2025
Start of Analysis		29/01/2025		End of Analysis		03/02/2025
Sample Container		Sterile-Plastic Bottle		Sample Quantity		100 ml
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No. 12/2024-PCB/2305158/800015723 AS per Class SW – II Waters				
Biological Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	Fecal coliform	80.0	<100.0	MPN/100 ml	IS (1622):1981R2019	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
EQUIPMENT CALIBRATION DETAILS						
Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail		
				Calibrated Date	Calibration Due Date	
---	pH Meter	SL/pH-Mtr-1/01	ACS/456/CM106/230034	19/03/2024	18/03/2025	
0807534526	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	19/03/2024	18/03/2025	
1023-048	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/230043	19/03/2024	18/03/2025	
---	BOD Incubator	SL/BOD/23	ACS/456/CM106/230045	19/03/2024	18/03/2025	
---	Oven	SL/HAO-1/03	ACS/456/CM106/230036	19/03/2024	18/03/2025	
66050	Water Bath	SL/WB/08	ACS/456/CM106/230041	19/03/2024	18/03/2025	
30342	Autoclave	SL/AC/126	ACS/456/CM106/230039	19/03/2024	18/03/2025	
For Shreeji Aqua Treatment Pvt. Ltd.						
						
			Managing Director Authorized Signatory			

—End of Test Report—

The results relate to sample tested.

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ULR No.: TC138772500012228F

TEST REPORT						03/02/2025
Sample / Report No.		SL/24-25/01/MFW/124A				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION I)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference		As per TRF Dated 28/01/2025				
Sample declaration as provided by customer :						
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 28/01/2025	Sample Received On	29/01/2025		
Start of Analysis		29/01/2025	End of Analysis	03/02/2025		
Sample Container		Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No. 12/2024-PCB/2305158/R000015723 AS per Class SW - II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.33	6.5-8.5	---	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	1.9	<4.0	mg/L	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	8.1	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.7	<3.0	mg/L	IS 3025 (Part 44):2023	
5	Temperature	27.8	---	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
For Shreeji Aqua Treatment Pvt. Ltd.						
						
 Managing Director Authorized Signatory						

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TEST REPORT						03/02/2025
Sample / Report No.		SL/24-25/01/MPW/124A				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION I)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 43/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.				
Order / Reference		As per TRF Dated 28/01/2025				
Sample declaration as provided by customer :						
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 28/01/2025		Sample Received On		29/01/2025
Start of Analysis		29/01/2025		End of Analysis		03/02/2025
Sample Container		Sterile Plastic Bottle		Sample Quantity		100 ml
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No. 12/2024-PCB/2305158/R00015723 AS per Class SW – II Waters				
Biological Testing:						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	Fecal coliform	80.0	<100.0	MPN/100 ml	IS (1622)-1981R2019	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
EQUIPMENT CALIBRATION DETAILS						
Sr.No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail		
				Calibrated Date	Calibration Due Date	
	pH Meter	SL/pH-Mtr-1/01	ACS/456/CM106/230004	18/03/2024	18/03/2025	
0307534576	Analytical Weighing Balance	SL/AB-3/07	ACS/456/CM106/230040	18/03/2024	18/03/2025	
1022-048	COD Digestion Apparatus	SL/COD-1/10	ACS/456/CM106/230043	18/03/2024	18/03/2025	
	BOD Incubator	SL/BOD/23	ACS/456/CM106/230045	18/03/2024	18/03/2025	
	Oven	SL/OAD-1/03	ACS/456/CM106/230036	18/03/2024	18/03/2025	
66050	Water Bath	SL/WB/08	ACS/456/CM106/230041	18/03/2024	18/03/2025	
10242	Autoclave	SL/AC/126	ACS/456/CM106/230004	18/03/2024	18/03/2025	
			For Shreeji Aqua Treatment Pvt. Ltd.			
			Managing Director Authorized Signatory			

—End of Test Report—

The results relate to sample tested.

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ULR No.: TC138772500012910F

TEST REPORT						12/02/2025
Sample / Report No.		SI/24-25/02/MWW/2025				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION II)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – II) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVEIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.				
Order / Reference		As per TRF Dated 07/02/2025				
Sample declaration as provided by customer :						
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 07/02/2025	Sample Received On	08/02/2025		
Start of Analysis		08/02/2025	End of Analysis	12/02/2025		
Sample Container		Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No. 12/2024-PCB/2305158/R00015723 A5 per Class SW – II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.31	6.5-8.5	---	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	6.6	>4.0	mg/L	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	7.6	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.6	<3.0	mg/l	IS 3025 (Part 44):2023	
5	Temperature	27.8	---	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given river upstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
For Shreeji Aqua Treatment Pvt. Ltd.						
				SJM Managing Director Authorized Signatory		

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Page 1 of 2

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

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

Vadodara: Plot No.1, Shah Ind. Park - I, Vadodara Sayli, Landapura, 387 775 Dist. Vadodra

Customer Care No.: +919225247345 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

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TEST REPORT

12/02/2025

Sample / Report No.	SL/24-25/02/MWW/203T		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION I)		
Address of Customer	WASTE HEAT RECOVERY POWER PLANT – I SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMDNA VILLAGE, BICHOLIM – GOA.		
Order / Reference	As per TRF Dated 07/02/2025		
Sample declaration as provided by customer :			
Nature of Sample	River upstream sample (100 mtrs. upstream from discharge point)		
Batch No.	NA		
Sample Drawn by	SATPL Team on 07/02/2025	Sample Received On	08/02/2025
Start of Analysis	08/02/2025	End of Analysis	12/02/2025
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	APHA 1060 (Part B)		
Limits	ESPCB Consent No. 12/2024-PCB/2305158/RO0015723 AS per Class SW – II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	80.0	<100.0	MPN/100 ml	IS (1672):1981R2019

REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.

Note: NA-Not Applicable.

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EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
---	pH Meter	SL/pH-NM-1/01	ACS/MS6/CM306/230014	18/03/2024	18/03/2025
D307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM306/230040	18/03/2024	18/03/2025
1022-048	COD Digestion Apparatus	SL/COD-V/10	ACS/456/CM306/230043	18/03/2024	18/03/2025
---	BOD Incubator	SL/BOD/33	ACS/456/CM306/230045	18/03/2024	18/03/2025
---	Chem	SL/HAO-0/03	ACS/456/CM306/230036	18/03/2024	18/03/2025
66050	Water Bath	SL/WB/08	ACS/456/CM306/230041	18/03/2024	18/03/2025
10342	Autoclave	SL/AC/136	ACS/MS6/CM306/230054	18/03/2024	18/03/2025

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

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ULR No.:TC138772500012909F

TEST REPORT				12/02/2025	
Sample / Report No.		SL/24-25/02/MWW/2025			
Name of Customer		M/s. VEDANTA LIMITED (MET CORE DIVISION I)			
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.			
Order / Reference		As per TRF Dated 07/02/2025			
Sample declaration as provided by customer :					
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)			
Batch No.		NA			
Sample Drawn by		SATPL Team on 07/02/2025	Sample Received On		08/02/2025
Start of Analysis		08/02/2025	End of Analysis		12/02/2025
Sample Container		Plastic Can	Sample Quantity		02 lit.
Sampling Procedure		APHA 1060 (Part B)			
Limits:		GSPCB Consent No. 12/2024-PCB/2305158/R00015723 AS per Class SW - II Waters			
Chemical Testing					
Sr.No	Parameters	Results	Limits	Unit	Method
1	pH	7.23	6.5-8.5	---	APHA, 24 th Edition 2023/ 4500-H+B
2	Dissolved Oxygen	6.8	>4.0	mg/L	APHA, 24 th Edition 2023/ 4500-BB.C
3	Turbidity	6.5	<30.0	NTU	APHA 24th edition: 2130-B: 2023
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.7	<3.0	mg/L	IS 3025 (Part 44):2023
5	Temperature	27.8	---	°C	IS 3025(Part 9): 2023
Note: NA-Not Applicable.					
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.					
Disclaimer: Information is 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 2

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

Lahr 164,Shreeji Terrace Apt. Plot No. 52, Puna Nagar, Chikhali, Pune-411019

Vadodara Plot No. 1, Shah Ind. Park-1, Vadorwa Savli, Landarpura. 391 775 Dist. Vadodra

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

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TEST REPORT

12/02/2025

Sample / Report No.	SL/24-25/02/MWW/2035		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION I)		
Address of Customer	[WASTE HEAT RECOVERY POWER PLANT - I] SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/L43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.		
Order / Reference	As per TRF Dated 07/02/2025		
Sample declaration as provided by customer :			
Nature of Sample	<i>River downstream sample (100 mtrs. downstream from discharge point)</i>		
Batch No.	NA		
Sample Drawn by	SATPL Team on 07/02/2025	Sample Received On	08/02/2025
Start of Analysis	08/02/2025	End of Analysis	12/02/2025
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	APHA 1060 (Part B)		
Limits	GSPCB Consent No. 12/2024-PCB/2305158/R00015733 AS per Class 5W - B Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	80.0	<100.0	MPN/100 ml	IS (1622):1981R2019

Note: NA-Not Applicable.

REMARK: Reference to above testing parameters, given River downstream 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	SL/pH-58-1/01	ACS/RS6/CM106/230004	18/03/2024	18/03/2025
0307318576	Analytical Weighing Balance	SL/AB-2/07	ACS/RS6/CM106/230040	18/03/2024	18/03/2025
1022-048	COD Digestion Apparatus	SL/COD-V10	ACS/RS6/CM106/230083	18/03/2024	18/03/2025
---	BOD incubator	SL/BOD/23	ACS/RS6/CM106/230085	18/03/2024	18/03/2025
---	Oven	SL/HAD-V03	ACS/RS6/CM106/230086	18/03/2024	18/03/2025
66090	Water Bath	SL/WB/08	ACS/RS6/CM106/230081	18/03/2024	18/03/2025
10242	Autoclave	SL/AC/126	ACS/RS6/CM106/230004	18/03/2024	18/03/2025

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
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, Morewarh, MDC, Pimpri-Chinchwad, Maharashtra 411018.

Lah: 184,Shreeji Terrace Apt, Plot No. 53, Parra Nagar, Chikhal, Pune: 411019

Vadodara: Plot No. 1, Shah Ind. Park-1, Vadodara-Savli, Larndepura. 391 375 Dist. Vadodra

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

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ULR No.: TC138772500012922F

TEST REPORT						26/02/2025
Sample / Report No.		SL/24-25/02/MFW/345D				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION I)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMDNA VILLAGE, BICHOLIM – GOA.				
Order / Reference		As per TRF Dated 21/02/2025				
Sample declaration as provided by customer :						
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 21/02/2025	Sample Received On	22/02/2025		
Start of Analysis		22/02/2025	End of Analysis	26/02/2025		
Sample Container		Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No. 12/2024-PCB/2305158/R00015723 AS per Class SW – II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.28	6.5-8.5	---	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	7.4	>4.0	mg/L	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	7.8	<10.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.3	<3.0	mg/L	IS 3025 (Part 44):2023	
5	Temperature	27.9	---	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.						
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For Shreeji Aqua Treatment Pvt. Ltd.						

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TEST REPORT

26/02/2025

Sample / Report No.	SL/24-25/02/MFW/345D		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION I)		
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.		
Order / Reference	As per TRF Dated 21/02/2025		
Sample declaration as provided by customer :			
Nature of Sample	<i>River upstream sample (100 mtrs. upstream from discharge point)</i>		
Batch No.	NA		
Sample Drawn by	SATPL Team on 21/02/2025	Sample Received On	22/02/2025
Start of Analysis	22/02/2025	End of Analysis	26/02/2025
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	APHA 1060 (Part B)		
Limits	GSPCB Consent No. 12/2024-PCB/2305158/R00015723 AS per Class SW – II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	70.0	<100.0	MPN/100 ml	IS (1622):1981R2019

Note: NA-Not Applicable

REMARK: Reference to above testing parameters, given River upstream 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	SL/pH-Mtr-1/01	ACS/456/CM106/230034	18/03/2024	18/03/2025
D307534576	Analytical Weighing Balance	SL/AB-2/07	ACS/456/CM106/230040	18/03/2024	18/03/2025
1022-048	COD Digestion Apparatus	SL/COD-I/16	ACS/456/CM106/230043	18/03/2024	18/03/2025
---	BOD incubator	SL/BOD/23	ACS/456/CM106/230045	18/03/2024	18/03/2025
---	Oven	SL/HAD-1/03	ACS/456/CM106/230036	18/03/2024	18/03/2025
04000	Water Bath	SL/WB/08	ACS/456/CM106/230041	18/03/2024	18/03/2025
10242	Autoclave	SL/AC/136	ACS/456/CM106/230004	18/03/2024	18/03/2025

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

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|| Shreeji ||

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ULR No.: TC138772500012921F

TEST REPORT				26/02/2025	
Sample / Report No.	SL/24-25/02/MPW/345C				
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION I)				
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.				
Order / Reference	As per TRF Dated 21/02/2025				
Sample declaration as provided by customer :					
Nature of Sample	River downstream sample (100 mtrs. downstream from discharge point)				
Batch No.	NA				
Sample Drawn by	SATPL Team on 21/02/2025	Sample Received On	22/02/2025		
Start of Analysis	22/02/2025	End of Analysis	26/02/2025		
Sample Container	Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure	APHA 1060 (Part B)				
Limits	GSPCD Consent No. 12/2024-PCB/2305158/R00015723 A5 per Class SW - II Waters				
Chemical Testing					
Sr.No	Parameters	Results	Limits	Unit	Method
1	pH	7.19	6.5-8.5	—	APHA, 24 th Edition 2023/ 4500-H-B
2	Dissolved Oxygen	7.8	>4.0	mg/L	APHA, 24 th Edition 2023/ 4500-B&C
3	Turbidity	7.1	<30.0	NTU	APHA 24th edition: 2130-B: 2023
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.8	<3.0	mg/L	IS 3025 (Part 44):2023
5	Temperature	27.9	—	°C	IS 3025(Part 9): 2023
Note: NA-Not Applicable.					
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.					
Disclaimer: <i>Information is supplied by customers represented in italic font</i>					
For Shreeji Aqua Treatment Pvt. Ltd.					
 Managing Director Authorized Signatory					

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Page 1 of 2

Pune: Plot No. B-34, H Block, Lal Tapa Nagar, Morawadi, MIDC, Pimpri-Chinchwad, Maharashtra-411018

Lalit: 164, Shreeji Temasa Apt, Plot No. 53, Purna Nagar, Chikhali, Pune-411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodra-Sarl, Landapura, 391 775 Dist. Vadodra

Customer Care No: +919025247985 Email: info@shreejiagua.com Web: www.shreejiagua.com

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

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TEST REPORT

26/02/2025

Sample / Report No.	SL/24-25/02/MFW/345C		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION I)		
Address of Customer	WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMDNA VILLAGE, BICHOLIM – GOA.		
Order / Reference	As per TRF Dated 21/02/2025		
Sample declaration as provided by customer :			
Nature of Sample	<i>River downstream sample (100 mtrs. downstream from discharge point)</i>		
Batch No.	NA		
Sample Drawn by	SATPL Team on 21/02/2025	Sample Received On	22/02/2025
Start of Analysis	22/02/2025	End of Analysis	26/02/2025
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	APHA 1060 (Part B)		
Limits	GSPCB Consent No. 12/2024-PCB/2305158/R00015723 AS per Class SW – II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	70.0	<100.0	MPN/100 ml	IS (1622):1981R2019

Note: NA-Not Applicable.

REMARK: Reference to above testing parameters, given River downstream 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	SL/pH-Mtr-1/01	ACS/MS6/CM106/230054	18/03/2024	18/03/2025
D302534576	Analytical Weighing Balance	SL/AB-2/07	ACS/MS6/CM106/230040	18/03/2024	18/03/2025
1022-048	DDB Digestion Apparatus	SL/COD-V/10	ACS/MS6/CM106/230043	18/03/2024	18/03/2025
—	BOD Incubator	SL/BOD/23	ACS/MS6/CM106/230045	18/03/2024	18/03/2025
—	Oven	SL/HAD-U/01	ACS/MS6/CM106/230038	18/03/2024	18/03/2025
56050	Water Bath	SL/WB-08	ACS/MS6/CM106/230042	18/03/2024	18/03/2025
10242	Autoclave	SL/AC/126	ACS/MS6/CM106/230004	18/03/2024	18/03/2025

For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

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ULR No.: TC138772500013585F

TEST REPORT						15/03/2025
Sample / Report No.		SL/24-25/03/MFW/44I				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GDA.				
Order / Reference		As per TRP Dated 10/03/2025				
Sample declaration as provided by customer :						
Nature of Sample		River upstream sample (100 mtrs. upstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 10/03/2025	Sample Received On	11/03/2025		
Start of Analysis		11/03/2025	End of Analysis	15/03/2025		
Sample Container		Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No. 12/2024-PCB/2305158/R00015723 AS per Class SW – II Waters				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.27	6.5-8.5	—	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	7.4	>4.0	mg/L	APHA, 24 th Edition 2023/ 4500-B&C	
3	Turbidity	8.1	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3-Days	2.5	<3.0	mg/L	IS 3025 (Part 44):2023	
5	Temperature	27.9	—	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given fliver upstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
				For Shreeji Aqua Treatment Pvt. Ltd. Managing Director Authorized Signatory		

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TEST REPORT

15/03/2025

Sample / Report No.	SL/24-25/03/MFW/44J		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION I)		
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205, 206, 207, 31/1, PART OF 177, 44, 43/1, 43/2, & 43/1 & 74, SURVEY NO. 207 (PART) OF NAYELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.		
Order / Reference	As per TRF Dated 10/03/2025		
Sample declaration as provided by customer :			
Nature of Sample	<i>River upstream sample (100 mtrs. upstream from discharge point)</i>		
Batch No.	NA		
Sample Drawn by	SATPL Team on 10/03/2025	Sample Received On	11/03/2025
Start of Analysis	11/03/2025	End of Analysis	15/03/2025
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	APHA 1060 (Part B)		
Limits	GSPCB Consent No. 12/2024-PCB/2305158/R00015723 AS per Class SW – II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	90.0	<100.0	MPN/100 ml	IS (1622):1981R:2019

REMARK: Reference to above testing parameters, given River upstream sample is within the prescribed limit.

Note: NA-Not Applicable.

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	SL/pH-Mtr-1/01	ACS/MS6/CM106/230034	18/03/2024	18/03/2025
D307534576	Analytical Weighing Balance	SL/AB-3/07	ACS/MS6/CM106/230040	18/03/2024	18/03/2025
1022-048	COD Digestion Apparatus	SL/COD-I/10	ACS/MS6/CM106/230043	18/03/2024	18/03/2025
---	BOD Incubator	SL/BOD/23	ACS/MS6/CM106/230045	18/03/2024	18/03/2025
---	Oven	SL/HAD-I/03	ACS/MS6/CM106/230036	18/03/2024	18/03/2025
66050	Water Bath	SL/WB/08	ACS/MS6/CM106/230041	18/03/2024	18/03/2025
10242	Autoclave	SL/AC/136	ACS/MS6/CM106/230004	18/03/2024	18/03/2025

For Shreeji Aqua Treatment Pvt. Ltd.




 Managing Director
 Authorized Signatory

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

The results relate to sample tested.

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ULR No.: TC138772500013584F

TEST REPORT						15/03/2025
Sample / Report No.		SL/24-25/03/MFW/44I				
Name of Customer		M/s. VEDANTA LIMITED (MET COKE DIVISION I)				
Address of Customer		(WASTE HEAT RECOVERY POWER PLANT – I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 43/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.				
Order / Reference		As per TRF Dated 10/03/2025				
Sample declaration as provided by customer :						
Nature of Sample		River downstream sample (100 mtrs. downstream from discharge point)				
Batch No.		NA				
Sample Drawn by		SATPL Team on 10/03/2025	Sample Received On	11/03/2025		
Start of Analysis		11/03/2025	End of Analysis	15/03/2025		
Sample Container		Plastic Can	Sample Quantity	02 lit.		
Sampling Procedure		APHA 1060 (Part B)				
Limits		GSPCB Consent No. 12/2024-PCB/2305158/R00015723 AS per Class SW – II Waters.				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	pH	7.36	6.5-8.5	—	APHA, 24 th Edition 2023/ 4500-H+B	
2	Dissolved Oxygen	7.8	>4.0	mg/L	APHA, 24 th Edition 2023/ 4500-88C	
3	Turbidity	6.9	<30.0	NTU	APHA 24th edition: 2130-B: 2023	
4	Bio Chemical Oxygen Demand (BOD) @ 27°C for 3 Days	2.3	<3.0	mg/L	IS 3025 (Part 44):2023	
5	Temperature	27.9	—	°C	IS 3025(Part 9): 2023	
Note: NA-Not Applicable.						
REMARK: Reference to above testing parameters, given River downstream sample is within the prescribed limit.						
Disclaimer: <i>Information is supplied by customers represented in italic font</i>						
			For Shreeji Aqua Treatment Pvt. Ltd.			
			 Managing Director Authorized Signatory			

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Pune: Plot No. 9-24, H Block, Lal Tapti Nagar, Mirawadi, WDC, Pimpri-Chinchwad, Maharashtra-411018.

Lah: 154,Shreeji Terrace Apt. Plot No. 33, Purva Nagar, Chikballi, Pune-411019

Vadodara: Plot No.1, Shub Ind. Park-1, Vadodara-Sarkh, Lamsdarasa.391 775 Dist. Vadodra

Customer Care No: +91825242365 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

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

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TEST REPORT

15/03/2025

Sample / Report No.	SL/24-25/03/MFW/441		
Name of Customer	M/s. VEDANTA LIMITED (MET COKE DIVISION I)		
Address of Customer	(WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1, PART OF 177,44,43/1,43/2, & 42/1 & 74,SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIUM - GOA.		
Order / Reference	As per TRF Dated 10/03/2025		
Sample declaration as provided by customer :			
Nature of Sample	<i>River downstream sample (100 mtrs. downstream from discharge point)</i>		
Batch No.	NA		
Sample Drawn by	SATPL Team on 10/03/2025	Sample Received On	11/03/2025
Start of Analysis	11/03/2025	End of Analysis	15/03/2025
Sample Container	Sterile Plastic Bottle	Sample Quantity	100 ml
Sampling Procedure	APHA 1060 (Part B)		
Limits	GSPCB Consent No. 12/2024-PCB/2305158/800015723 AS per Class SW - II Waters		

Biological Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Fecal coliform	90.0	<100.0	MPN/100 ml	IS (1622)-1981R2019

Note: NA-Not Applicable.

REMARK: Reference to above testing parameters, given River downstream 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	SL/pH-Mtr-1/01	ACS456/CM106/230034	19/03/2024	18/03/2025
0307534576	Analytical Weighing Balance	SL/AB-2/07	ACS456/CM106/230040	19/03/2024	18/03/2025
1021-048	COD Digestion Apparatus	SL/COD-5/10	ACS456/CM106/230043	19/03/2024	18/03/2025
---	BOD Incubator	SL/BOD/23	ACS456/CM106/230045	19/03/2024	18/03/2025
---	Oven	SL/MAO-03	ACS456/CM106/230036	19/03/2024	18/03/2025
66090	Water Bath	SL/WB/08	ACS456/CM106/230041	19/03/2024	18/03/2025
10242	Autoclave	SL/AC/126	ACS456/CM106/230004	19/03/2024	18/03/2025



For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

Page 2 of 2

Annexure XI
Dumps covered with geotextile

Dumps covered with geotextile and desilted settling ponds drains



Dumps covered with geotextile and desilted settling ponds drains



Dumps covered with geotextile and desilted settling ponds drains

Filter beds



Annexure XII
Analyzer Calibration reports

CALIBRATION RECORD

Customer	M/S Vedanta Ltd.
Report Date	31/12/2024
Stack Name	Waste heat recovery power plant 1_Boiler 1
Sampling Time	5pm to 6pm
Plant Load	52.9% (30MW)
Sampling Date	27-12-2024

Instrument	Dust Monitor
Model	DR 290
Serial Num.	1306061

Optical Density from dust monitor during sampling.

Optical Density (Average)	0.085
---------------------------	-------

Sampling result in mg/m ³	14.86
Avg. OD	0.085
Calculation	14.86/0.085
Dust Coefficient	172



Checked and confirmed by:

Swapnil Shirodkar

Horiba India Limited

CALIBRATION RECORD

Customer	M/S Vedanta Ltd.
Report Date	31/12/2024
Stack Name	Waste heat recovery power plant 1_Boiler 2
Sampling Time	3pm to 4pm
Plant Load	52.6% (30MW)
Sampling Date	27-12-2024

Instrument	Dust Monitor
Model	DR 290
Serial Num.	1306065

Optical Density from dust monitor during sampling.

Optical Density (Average)	0.040
---------------------------	-------

Sampling result in mg/m3	8.99
Avg. OD	0.040
Calculation	8.99/0.040
Dust Coefficient	224



Checked and confirmed by:

Swapnil Shirodkar

Horiba India Limited

CALIBRATION RECORD

Customer	M/S Vedanta Ltd.
Report Date	30/12/2024
Stack Name	Waste heat recovery power plant 2_Boiler 1
Sampling Time	12:30pm to 1:30am
Plant Load	71.7% (35 MW)
Sampling Date	26-12-2024

Instrument	Dust Monitor
Model	DR 290
Serial Num.	1306068

Optical Density from dust monitor during sampling.

Optical Density (Average)	0.0920
---------------------------	--------

Sampling result in mg/m ³	5.71
Avg. OD	0.0920
Calculation	5.71/0.0920
Dust Coefficient	62.06



Checked and confirmed by:

Swapnil Shirodkar

Horiba India Limited

CALIBRATION RECORD

Customer	M/S Vedanta Ltd.
Report Date	30/12/2024
Stack Name	Waste heat recovery power plant 2_Boiler 2
Sampling Time	3pm to 4pm
Plant Load	69.2% (35 MW)
Sampling Date	26-12-2024

Instrument	Dust Monitor
Model	DR 290
Serial Num.	1306060

Optical Density from dust monitor during sampling.

Optical Density (Average)	0.032
---------------------------	-------

Sampling result in mg/m3	2.78
Avg. OD	0.032
Calculation	$2.78/0.032$
Dust Coefficient	86.875



Checked and confirmed by:

Swapnil Shirodkar

Horiba India Limited

CALIBRATION RECORD

Customer	M/S Vedanta Ltd.
Report Date	27/12/2024
Stack Name	Pig Iron division _HBS-1
Sampling Time	11:30am to 12:30 pm
Plant Load	98%
Sampling Date	31/12/2024

Instrument	Dust Monitor
Model	DR 290
Serial Num.	1306067

Optical Density from dust monitor during sampling.

Optical Density (Average)	0.0102
---------------------------	--------

Sampling result in mg/m3	10.2
Avg. OD	0.0102
Calculation	10.2/0.0102
Dust Coefficient	982



Checked and confirmed by:

Swapnil Shirodkar

Horiba India Limited

CALIBRATION RECORD

Customer	M/S Vedanta Ltd.
Report Date	03/1/2025
Stack Name	Pig Iron division _BF3 HBS
Sampling Time	12pm to 1pm
Plant Load	100%
Sampling Date	30-12-2024

Instrument	Dust Monitor
Model	DR 290
Serial Num.	1306064

Optical Density from dust monitor during sampling.

Optical Density (Average)	0.006
---------------------------	-------

Sampling result in mg/m ³	5.18
Avg. OD	0.006
Calculation	5.18 /0.006
Dust Coefficient	863.33



Checked and confirmed by:

Swapnil Shirodkar

Horiba India Limited

CALIBRATION RECORD

Customer	M/S Vedanta Ltd.
Date	30/12/2024
Stack Name	Sinter Plant _Tail End ESP
Sampling Time	3pm to 4pm
Plant Load	100%
Sampling Date	3/01/2025

Instrument	Dust Monitor
Model	DR 290
Serial Num.	1306062

Optical Density from dust monitor during sampling.

Optical Density (Average)	0.0780
---------------------------	--------

Sampling result in mg/m3	24.30
Avg. OD	0.0780
Calculation	$24.30/0.078$
Dust Coefficient	331



Checked and confirmed by:

Swapnil Shirodkar

Horiba India Limited

CALIBRATION RECORD

Customer	M/S Vedanta Ltd.
Date	03/01/2025
Stack Name	Sinter Plant _Head End ESP
Sampling Time	3:10PM to 4:10PM
Plant Load	100%
Sampling Date	30/12/2024

Instrument	Dust Monitor
Model	DR 290
Serial Num.	1282418

Optical Density from dust monitor during sampling.

Optical Density (Average)	0.562
---------------------------	-------

Sampling result in mg/m ³	28.03
Avg. OD	0.562
Calculation	28.03/0.562
Dust Coefficient	49.87



Checked and confirmed by:

Swapnil Shirodkar

Horiba India Limited

Annexure XIII
Fugitive dust emission reports



|| Shreeji ||

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TEST REPORT

Lab Inward No. : SL/24-25/11/MST/144G	Date of Sampling : 26/11/2024
Client Name: M/s. VEDANTA LIMITED (MET COKE DIVISION-I) (WASTE HEAT RECOVERY POWER PLANT - I) SURVEY NO. 205,206,207, 31/1,33 PART OF 177,44,43/1,43/2, & 43/1 & 74, SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.	Start of analysis : 26/11/2024
	End of Analysis : 30/11/2024
	Report Date : 30/11/2024
Sample Drawn By : SATPL Representative on 26/11/2024	
Order / Reference: As per TRF Dated 12/11/2024	
Monitoring For : FUGITIVE EMISSION MONITORING	
Sampling Procedure : As per respective NIOSH/15 Guidelines	
Limits : As per The Environmental (Protection) Rules1986 (Third Amendment),2012.	
Sampling Location : MCD New Coal Shed & Coke Yard.	
Lateral Distance : 3 meter	Duration : 08 Hrs.
Receptor Height : 1 meter	Time : 10:45 am to 06:45 pm

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	32.12	<200.0	µg/m ³	IS 5182(Part-2):R2022
2	Oxides of Nitrogen (NO _x)	30.48	<150.0	µg/m ³	IS 5182(Part-5):R2022
3	PM ₁₀	521.14	<2000.0	µg/m ³	IS 5182(Part-23):R 2022
4	PM _{2.5}	74.24	<300.0	µg/m ³	IS 5182(Part-24):2019

Note: NA- Not Applicable.

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

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

EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
117581-18-DT-01023	Respirable Dust Sample	SATPL/VAR/RDS/01	BT902711	16.03.2024	15.03.2025
1211-DTC-2033	Gas/size Attachment Sample	SATPL/AIR/RDS/03-A	FT03712	16.03.2024	15.03.2025
556277	Digital Electronic Balance	SL/SMB/41	ACS/456/CM30/210072	19.03.2024	18.03.2025
NA	Digital Spectrophotometer Model	SL/UV/34	—	Inhouse Calibration	

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

Page 1 of 1.

Pune: Plot No. B-2c, H Block, Lal Topi Nagar, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Late: 184 Shreeji Terrace Apt. Plot No. 33, Purna Nagar, Chikhali, Pune: 411019

Vadodara: Plot No.1, Shah Ind. Park-I, Vadodara-Sanki, Landapur, 391 775 Dist. Vadodra

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

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

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TEST REPORT

Lab Inward No. : SL/24-25/11/MST/144H	Date of Sampling : 26/11/2024
Client Name: M/s. VEDANTA LIMITED (PIG IRON PLANT)	Start of analysis : 26/11/2024
SURVEY NO. 30 (PART)41,42/1,27 (PART) AMONA, P.O. MARCELA, BICHOLIM – GOA.	End of Analysis : 30/11/2024
	Report Date : 30/11/2024
	Sample Drawn By : SATPL Representative on 26/11/2024
Order / Reference: As per TRF Dated 12/11/2024	
Monitoring For : FUGITIVE EMISSION MONITORING	
Sampling Procedure : As per respective NIOSH/IS Guidelines	
Limits : As per The Environmental (Protection) Rules1986-(Third Amendment),2012.	
Sampling Location : Pig Iron Yard	
Lateral Distance : 3 meter	Duration : 08 Hrs.
Receptor Height : 1 meter	Time : 10:50 am to 06:50 pm

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	34.68	<200.0	µg/m ³	IS 5182(Part-2),2002
2	Oxides of Nitrogen (NO _x)	38.43	<150.0	µg/m ³	IS 5182(Part-6),2002
3	PM ₁₀	445.65	<2000.0	µg/m ³	IS 5182(Part-23),2002
4	PM _{2.5}	72.69	<300.0	µg/m ³	IS 5182(Part-24),2019

Note: NA- Not Applicable.

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

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EQUIPMENT CALIBRATION DETAILS

Sr.No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
1175R1 18-07-01023	Respirable Dust Sample	SATPL/AIR/EDS/DE	ET03211	16-03-2024	15-03-2025
1211-07C-2013	Gasometer Attachment Sample	SATPL/AIR/EDS/DE-A	FP03212	16-03-2024	15-03-2025
556277	Digital Electronic Balance	SL/SM0741	ACS/456/CM30/230072	19-03-2024	18-03-2025
NA	Digital Spectrophotometer Model	SL/11V/34	—	Inhouse Calibration	

Review By:



Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.



Quality Manager
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

Page 1 of 1

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TEST REPORT

Lab Inward No. : SL/24-25/11/MST/1441	Date of Sampling : 26/11/2024
Client Name: M/s. VEDANTA LIMITED (PIG IRON PLANT) SURVEY NO. 30 (PART)41,42/1,27 (PART) AMONA, P.O. MARCELA, BICHOLIM – GOA.	Start of analysis : 26/11/2024
	End of Analysis : 30/11/2024
	Report Date : 30/11/2024
	Sample Drawn By : SATPL Representative on 26/11/2024
Order / Reference: As per TRF Dated 12/11/2024	
Monitoring For : FUGITIVE EMISSION MONITORING	
Sampling Procedure : As per respective NIOSH/IS Guidelines	
Limits : As per The Environmental (Protection) Rules1986 (Third Amendment),2012.	
Sampling Location : Loading & Unloading at Jetty	
Lateral Distance : 3 meter	Duration : 08 Hrs.
Receptor Height : 1 meter	Time : 10:55 am to 06:55 pm

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	38.65	<200.0	µg/m ³	IS 5182(Part-2);R2022
2	Oxides of Nitrogen (NO _x)	40.32	<150.0	µg/m ³	IS 5182(Part-5);R2022
3	PM ₁₀	547.26	<2000.0	µg/m ³	IS 5182(Part-23);R 2022
4	PM _{2.5}	69.24	<300.0	µg/m ³	IS 5182(Part-24);2019

Note: NA- Not Applicable.

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

Disclaimer: Information is supplied by customers represented in *italic font***EQUIPMENT CALIBRATION DETAILS**

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
117SH1 3B-DT-01029	Respirable Dust Sample	SATPL/AM/RDS/01	BT03211	16.03.2024	15.03.2025
1211-DTC-2013	Gasouse Attachment Sample	SATPL/AM/RDS/01- 6	FF05212	16.03.2024	15.03.2025
556277	Digital Electronic Balance	SL/SMB/41	ACS/436/CM30/230072	19.03.2024	18.03.2025
NA	Digital Spectrophotometer Model	SL/UV/34	—————	Inhouse Calibration	

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

Page 1 of 1

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

Lab: 184,Shreeji Ternara Apt. Plot No. 53, Purma Nagar, Chikhali, Pune-411019

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Sewli, Landapura, 391 775 Dist. Vadodra

Customer Care No.: +919225247543 Email: info@shreejaqua.com Web: www.shreejaqua.com

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TEST REPORT

Lab Inward No. : SL/24-25/11/MST/144J	Date of Sampling : 26/11/2024
Client Name: M/s. VEDANTA LIMITED (PIG IRON EXPANSION PLANT)	Start of analysis : 26/11/2024
SURVEY NO. 61/1,61/3,62,63/0,120/1,120/2,177 (PART),205,206,207, VILLAGE NAVELIM, BICHOLIM - GOA	End of Analysis : 30/11/2024
	Report Date : 30/11/2024
	Sample Drawn By : SATPL Representative on 26/11/2024

Order / Reference: As per TRF Dated 12/11/2024

Monitoring For : FUGITIVE EMISSION MONITORING

Sampling Procedure : As per respective NIOSH/IS Guidelines

Limits : As per The Environmental (Protection) Rules1986-(Third Amendment),2012.

Sampling Location : Internal Transportation Road

Lateral Distance : 3 meter

Duration : 08 Hrs.

Receptor Height : 3 meter

Time : 10:30 am to 06:30 pm

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	33.69	<200.0	µg/m ³	IS 5182(Part-3);R2022
2	Oxides of Nitrogen (NO _x)	36.48	<150.0	µg/m ³	IS 5182(Part-6);R2022
3	PM ₁₀	498.11	<2000.0	µg/m ³	IS 5182(Part-23);R 2022
4	PM _{2.5}	70.36	<300.0	µg/m ³	IS 5182(Part-24);2020

Note: NA- Not Applicable.

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

Disclaimer: Information is supplied by customers represented in italic font

EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
117581 18-DT- 01623	Respirable Dust Sample	SATPL/AIR/905/03	ET03211	16.03.2024	15.03.2025
1211-070- 2013	Gasous Attachment Sample	SATPL/AIR/905/01- A	FE03212	16.03.2024	15.03.2025
556277	Digital Electronic Balance	SL/SMB/41	ACS/456/CM30/230072	19.03.2024	18.03.2025
NA	Digital Spectrophotometer Model	SL/UV/34	-----	Inhouse Calibration	

Review By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

Page 1 of 1



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TEST REPORT

Lab Inward No. : SL/24-25/02/MWZ/3371	Date of Sampling : 21/02/2025
Client Name: M/s. VEDANTA LIMITED (MET COKE DIVISION-I) (WASTE HEAT RECOVERY POWER PLANT – I)	Start of analysis : 21/02/2025
	End of Analysis : 25/02/2025
	Report Date : 25/02/2025
SURVEY NO. 205,206,207, 31/1,33 PART OF 177,44,43/1,43/2, & 42/1 & 74, SURVEY NO. 207 (PART) OF NAVELIM VILLAGE AND SURVEY NO. 43/L, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.	Sample Drawn By : SATPL Representative on 21/02/2025
Order / Reference: As per TRF Dated 01/02/2025	
Monitoring For : FUGITIVE EMISSION MONITORING	
Sampling Procedure : As per respective NIOSH/IS Guidelines	
Limits : As per The Environmental (Protection) Rules1986-(Third Amendment), 2012.	
Sampling Location : MCD New Coal Shed & Coke Yard.	
Lateral Distance : 3 meter	Duration : 08 Hrs.
Receptor Height : 1 meter	Time : 11:00 am to 07:00 pm

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	35.76	<200	µg/m ³	ISS182(Part-2);R2022
2	Oxides of Nitrogen (NO ₂)	32.54	<150	µg/m ³	ISS182(Part-6);R2022
3	PM ₁₀	654.27	<2000	µg/m ³	ISS182(Part-23);R 2022
4	PM _{2.5}	98.14	<300	µg/m ³	ISS182(Part-24);2019

Note: NA- Not Applicable.

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

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

EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
2893 DTB 2021	RDS (PM 10)	SATPL/AIR/AAS/36	ASPM/2023-24/205-13	19/03/2024	18/03/2025
7098 DTB 2021	GoreousAttachmentSampl	SATPL/AIR/AAS/36	ALPM/2023-24/205-13	19/03/2024	18/03/2025
85627	Digital Electronic Balance	SL/SMB/41	ACS/856/CM 30/230073	19/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SL/S/734		Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

—End of Test Report—

The results relate to sample tested

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

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

Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Civil, Laxmidapura, 391 775 Dist. Vadodra

Customer Care No: +91 2225247363 Email: info@shreejiagua.com Web: www.shreejiagua.com

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



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TEST REPORT

Lab Inward No. : SL/24-25/02/MW2/219M	Date of Sampling : 10/02/2025
Client Name: M/s. VEDANTA LIMITED (PIG IRON PLANT)	Start of analysis : 10/02/2025
SURVEY NO. 30 (PART)41,42/1,27 (PART) AMONA, P.O. MARCELA, BICHOLIM - GOA.	End of Analysis : 14/02/2025
	Report Date : 14/02/2025
	Sample Drawn By : SATPL Representative on 10/02/2025
Order / Reference: As per TRF Dated 01/02/2025	
Monitoring For : FUGITIVE EMISSION MONITORING	
Sampling Procedure : As per respective NIOSH/15 Guidelines	
Limits : As per The Environmental (Protection) Rules1986-(Third Amendment),2012.	
Sampling Location : Pig Iron Yard	
Lateral Distance : 3 meter	Duration : 08 Hrs.
Receptor Height : 1 meter	Time : 10:30 am to 06:30 pm

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	41.18	<200	µg/m ³	ISS182(Part-2);R2022
2	Oxides of Nitrogen (NO ₂)	34.65	<150	µg/m ³	ISS182(Part-6);R2022
3	PM10	548.34	<2000	µg/m ³	ISS182(Part-23);R 2022
4	PM2.5	82.25	<300	µg/m ³	ISS182(Part-24);2019

Note: NA- Not Applicable.

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

Disclaimer: Information is supplied by customers represented in italic font

EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
190001/2020	BDS (PM10)	SATPL/AIR/AAS/25	ASPM/2023-24/205-09	19/03/2024	18/03/2025
190002/2020	Gaseous Attachment/Samp	SATPL/AIR/AAS/25	ASPM/2023-24/205-09	19/03/2024	18/03/2025
SS627	Digital Electronic Balance	SL/SMB/42	ACS/456/CM 30/230073	19/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SL/UV/34		Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
Managing Director
Authorized Signatory

—End of Test Report—

The results relate to sample tested.

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TEST REPORT

Lab Inward No. : SL/24-25/02/MWZ/219N	Date of Sampling : 10/02/2025
Client Name: M/s. VEDANTA LIMITED (PIG IRON PLANT)	Start of analysis : 10/02/2025
	End of Analysis : 14/02/2025
SURVEY NO. 30 (PART)41,42/1,27 (PART) AMONA, P.O. MARCELA, BICHOLIM – GOA.	Report Date : 14/02/2025
	Sample Drawn By : SATPL Representative on 10/02/2025

Order / Reference: As per TRF Dated 01/02/2025

Monitoring For : FUGITIVE EMISSION MONITORING

Sampling Procedure : As per respective NIOSH/IS Guidelines

Limits : As per The Environmental (Protection) Rules1986-(Third Amendment),2012.

Sampling Location : Loading & Unloading at Jetty

Lateral Distance : 3 meter

Duration : 08 Hrs.

Receptor Height : 1 meter

Time : 10:50 am to 06:50 pm

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	30.23	<200	µg/m ³	IS5182(Part-2);R2022
2	Oxides of Nitrogen (NO ₂)	43.11	<150	µg/m ³	IS5182(Part-6);R2022
3	PM10	687.45	<2000	µg/m ³	IS5182(Part-23);R
4	PM2.5	103.12	<300	µg/m ³	IS5182(Part-24);2019

Note: NA- Not Applicable.

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

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
26840782021	ROS (PM 10)	SATPL/MB/AA5/13	ASPM/2003-24/205-07	18/03/2024	18/03/2025
25840782021	Gasolina/Attachmer/Sample	SATPL/MB/AA5/13	ASPM/2003-24/205-07	18/03/2024	18/03/2025
558477	Digital Electronic Balance	SL/SMB/41	ACE/MS6/CM 30/210072	18/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SL/UV/34		Inhouse Calibration	

For Shreeji Aqua Treatment Pvt. Ltd.




 Managing Director
 Authorized Signatory

—End of Test Report—

The results relate to sample tested.

Page 1 of 1

**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 31/06/2026.

TEST REPORT

Lab Inward No. : 5L/24-25/02/MW2/2190	Date of Sampling : 10/02/2025
Client Name: M/s. VEDANTA LIMITED (PIG IRON EXPANSION PLANT)	Start of analysis : 10/02/2025
SURVEY NO. 61/1,61/3,62,63/0,120/1,120/2,177 (PART),205,206,207, VILLAGE NAVELIM, BICHOLIM – GOA	End of Analysis : 14/02/2025
	Report Date : 14/02/2025
	Sample Drawn By : SATPL Representative on 10/02/2025

Order / Reference: As per TRF Dated 01/03/2025

Monitoring For : FUGITIVE EMISSION MONITORING

Sampling Procedure : As per respective NIOSH/IS Guidelines

Limits : As per The Environmental (Protection) Rules1986-(Third Amendment),2012.

Sampling Location : Internal Transportation Road

Lateral Distance : 3 meter

Duration : 08 Hrs.

Receptor Height : 3 meter

Time : 10:35 am to 06:35 pm

RESULTS

Sr. No.	Parameters	Results	Limits	Unit	Reference Method
1	Sulphur Dioxide (SO ₂)	28.86	<200	µg/m ³	ISS182(Part-2);R2022
2	Oxides of Nitrogen (NO ₂)	39.92	<150	µg/m ³	ISS182(Part-6);R2022
3	PM ₁₀	512.65	<2000	µg/m ³	ISS182(Part-23);R 2022
4	PM _{2.5}	76.90	<300	µg/m ³	ISS182(Part-24);2019

Note: NA- Not Applicable.

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

Disclaimer: Information is supplied by customers represented in italic font

EQUIPMENT CALIBRATION DETAILS

Sr. No.	EquipmentName	Equipment ID	CertificateNo.	Calibration Detail	
				Calibrated Date	Calibration Due Date
T7121	PCS (PM 10)	SATPL/AM/AA5/20	ASPM/2023-24/205-08	09/03/2024	18/03/2025
AA66Q2021	Gaseous Attachment Sample	SATPL/AM/AA5/20	ASPM/2023-24/205-08	09/03/2024	18/03/2025
SS027	Digital Electronic Balance	5L/SMB/01	ACS/456/CM 30/230072	10/03/2024	18/03/2025
NA	Digital Spectrophotometer Model	SLAN/34	—	Inhouse 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

Annexure XIV
Silica/quartz Reports attached

Final Report

Quantitative Exposure Assessment Monitoring

Conducted at

Vedanta Limited

Assessment Period: 17th January to 2nd February, 2024

Date of Draft Report: 5th April, 2024

Date of Final Report: 5th May, 2024

Submitted to

Dr. Abel Da Costa

Prepared by

Jay Suvagiya Industrial Hygienist

Review by

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3. Results, Observations and Recommendations	6
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1. Executive Summary

Personal Air Monitoring

Total fifty ones personal air samples were collected to check silica exposure. Eight hours results of all the samples collected during our visit were below the threshold limit value provided by ACGIH and The Indian Factories Act, 1948.

Personal exposure assessment results summary:

Sr. No	Analyte	No of samples collected	No of High results samples as per TLV, TWA (as per ACGIH)	No of High results samples as per PEL, TWA (as per The Indian Factories Act-TIFA)	(Sr. no / page no) Find specific observation, suggestion on mentioned sr. no and pages
1	silica Quartz	51	0	NA	-
2	silica Cristobalite	51	0	NA	-

We had provided all the suggestions along with results in section 3.

Please read this report in conjunction with the following documents:

- Industrial Hygiene Results Sheet as Appendix 1

2. Methods and Evaluation Criteria

a. Air Monitoring Methodology

2.1 SIHS used below mentioned media for sampling.

Sr. No	Analyte	Media
1	Respirable Particulate, Respirable Silica (Quartz and Cristobalite)	3 PC PW PVC+ Cyclone

2.2 Sampling media was attached to battery operated personal air sampling pump (Casella make) with Tygon® tubing.

2.3 SIHS team conducted the air monitoring by placing the sampling media in the operator’s breathing zone. The purpose of the personal exposure monitoring was to determine the degree of operator’s exposure to chemicals during the activity / unit operations.

2.4 A primary calibrator, factory calibrated annually (Make: Casella, Model: Flow Detective Plus, Serial Number: 4304376; Calibration date: 15/06/2023) was used for the purpose of calibrating the sampling pumps attached with a dedicated sampling filter.

2.5 Calibration (Pre and Post) was conducted for all the air samples. Three calibrated flow rates were measured to determine the average flow rate as per the validated sampling methods.

2.6 After completion of monitoring, the plugs were placed back on to the filter cassette /caps at the ends of the sorbent tubes were capped and stored in a clean plastic zip-lock bag.

2.7 Each sample was identified by a SIHS specific number. At the end of the monitoring, a Chain-of-Custody was prepared for all the samples. The collected samples were shipped with the Chain-of-Custody to AIHA accredited Laboratory.



Air Sampling Evaluation Criteria

The ACGIH, 2024, established TLVs, and the Indian Factories Act, 1948, provided that PEL was used as the primary evaluation criteria for comparing exposure monitoring results for chemicals.

TLVs of chemicals & physical parameter

Analyte	TLV-TWA-ACGIH	TLV-TWA-TIFA
Silica Quartz	0.025 mg/m ³	Sample specific
Silica Cristobalite	0.025 mg/m ³	Sample specific

Industrial Hygiene Data Analysis categories and follow up actions against category

Category	Category type	Follow up action
1	Highly controlled	Procedure, training, general hazard communication
2	Well controlled	Chemical specific hazard communication, periodic exposure monitoring
3	Controlled	Required Exposure Monitoring, Workplace Inspections to Verify Work Practice Controls; Medical Surveillance, Biological Monitoring
4	Poorly controlled	Implement Hierarchy of Controls; Monitoring to Validate Respirator Protection Factor Selection.

How to interpretate it? : Sometimes results of all the three samples will be less than 50% of the TLV, but distribution, mean, 95th percentile, etc will be more than 50% of the TLV which will increase likelihood of getting results on higher than TLV in future Or some of the results will be less than 50% of the TLV, which believes that although results are below the TLV but it is well controlled and less chances / likelihood are there to get higher results in future.

So even after getting results less than TLV, we should perform some follow up action (mentioned above) to control exposure at the same level and to give better protection to the employees from the exposure.

3. Results, Observations and recommendations:

Air sampling activity details and graphs:

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
1	Sinter	Flux & fuel	Silica	Crusher operation	3	0	0.025 mg/m ³	4

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	17-1-24	V/1701/SI 01	Silica- Quartz	Nilesh Viturkar	08:59	13:57	298	810	2.45	730.4	0.016	0.0099	3.13
			Silica Cristobalite								< 5 µg	< 5 µg	1.56
2	18-1-24	V/1801/SI 15	Silica- Quartz	Nilesh Viturkar	08:32	14:24	352	701	2.501	880.35	0.020	0.014	2.63
			Silica Cristobalite								0.016	0.011	1.32
3	19-1-24	V/1901/SI 23	Silica- Quartz	Nilesh Viturkar	08:24	14:14	350	760	2.49	872.38	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA

Observations:

V/1701/SI 01: The employee was involved in the crusher operation for two hours and then he stayed in the canteen.

V/1801/SI 15: The employee was involved in the crusher operation for two hours and then he stayed in the canteen.

V/1901/SI 23: The employee was involved in unloading 13 trucks (four trucks of dolomite, two trucks of coal, four trucks of coke, and three trucks of lime). The employee was doing helper's work as helper was not available on that day.

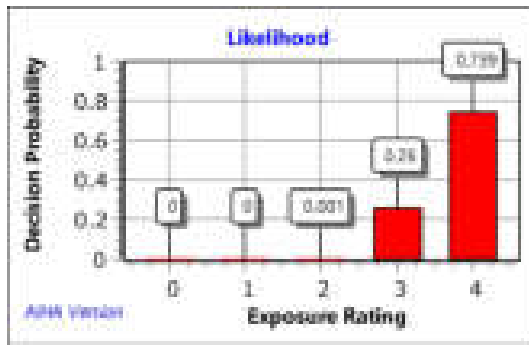
Existing control measures: Local exhaust ventilation (LEV), **PPEs:** Venus V 44+ mask.

Exposure source: Dust was airborne due to leakage in the crusher. Local Exhaust Ventilation (LEV) was present but it seems it was not sufficient.

Result and statistical analysis:

Silica (TLV-TWA):

Results of all the three samples were below the limit as per the ACGIH & the Indian Factories Act, 1948. The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 4, indicating poorly controlled exposure.



Silica cristobalite- Not available due to below detection results

Silica quartz

Recommendation:

- It is suggested to conduct respiratory fit test of the employees and provide them training on “Awareness on PPEs with Storage and maintenance of PPEs”.

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
2	Sinter	Flux & fuel	Silica	Material charging-Helper	3	1 (monitoring time result), 0 TWA	0.025 mg/m ³	4

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	17-1-24	V/1701/SI 02	Silica- Quartz	Dipak Gavkar	09:22	14:12	290	620	2.48	719.35	0.011	0.0006	3.45
			Silica Cristobalite								< 5 µg	< 5 µg	1.72
2	18-1-24	V/1801/SI 14	Silica- Quartz	Dipak Gavkar	08:34	14:09	335	810	2.49	835.99	0.017	0.011	2.38
			Silica Cristobalite								0.028	0.019	1.19
3	19-1-24	V/1901/SI 24	Silica- Quartz	Naresh Mandekar	08:04	14:14	370	701	2.5	925.19	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA

Observations:

V/1701/SI 02: The employee was involved in the charging of dolomite (dolo) and coke at the flux and fuel area of the sinter plant during monitoring. He was involved in the charging activity and cleaning the crusher area twice in a shift. He was also involved in cleaning six trucks of dolomite and two trucks of coal with the help of a shovel.

V/1801/SI 14: The employee was involved in the charging of dolomite (dolo) and coke at the flux and fuel area of the sinter plant during monitoring. He was involved in the charging activity and cleaning the crusher area twice in a shift. He was also involved in cleaning six trucks of dolomite and two trucks of coal with the help of a shovel.

V/1901/SI 24: He had taken six rounds at the crusher area during the monitoring. He was not involved in cleaning during monitoring.

Exposure source: Dust was airborne during handling of material with shovel for cleaning purpose.

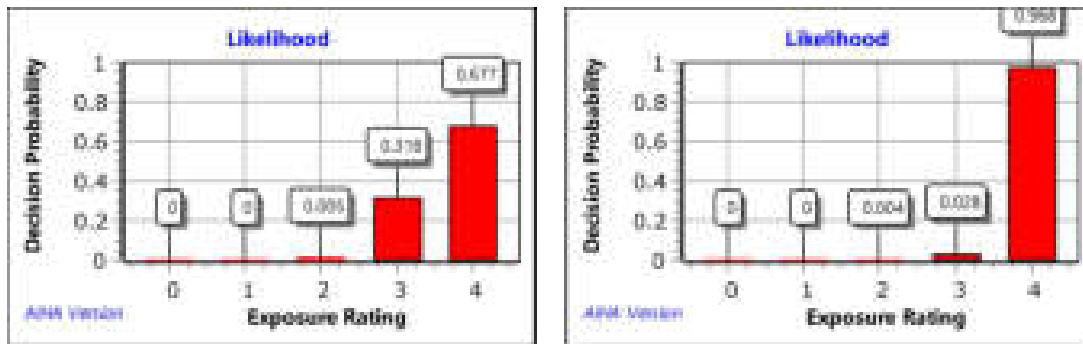
Existing control measures: Local exhaust ventilation (LEV), **PPEs:** Venus V 44+ mask.

Result and statistical analysis:

Silica (TLV-TWA):

Results of all the three samples of quartz were below the limit as per the ACGIH & the Indian Factories Act, 1948. The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 4, indicating poorly controlled exposure.

Monitoring time result of one sample of cristobalite were above the limit as per the ACGIH. However, TWA results of all the samples were below the TWA limit.



Silica quartz

Recommendation:

- It is suggested to conduct respiratory fit test of the employees and provide them training on “Awareness on PPEs with Storage and maintenance of PPEs”.

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
3	Sinter	Proportioning bottom	Silica	Plant operation	3	1 (monitoring time result), 0 TWA	0.025 mg/m ³	4

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	17-1-24	V/1701/SI 03	Silica- Quartz	Rahul Pandey	07:33	14:20	407	363	2.47	1008.75	0.013	0.011	3.33
			Silica Cristobalite								< 5 µg	< 5 µg	NA
2	18-1-24	V/1801/SI 13	Silica- Quartz	Dulgo Sawant	08:21	14:16	355	760	2.504	888.92	0.0067	0.0049	2.94
			Silica Cristobalite								< 5 µg	< 5 µg	NA
3	19-1-24	V/1901/SI 25	Silica- Quartz	Arjun Volvoikr	08:03	14:24	381	810	2.48	946.79	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA

Observations:

V/1701/SI 03: The employee was involved in the operation of proportioning building bottom area of the sinter plant during the monitoring. He was also engaged with daily routine rounds in proportioning the building bottom area.

V/1801/SI 13: The employee was involved in the routine supervision of proportioning building bottom area of the sinter plant during the monitoring. He was also involved in spillage cleaning of the material with the help of a shovel, and that was put down into the silo. During monitoring he had completed cleaning of the area only one time.

V/1901/SI 25: The employee was involved in the operation of proportioning building bottom area of the sinter plant during the monitoring. During monitoring he had completed cleaning of the area only one time.

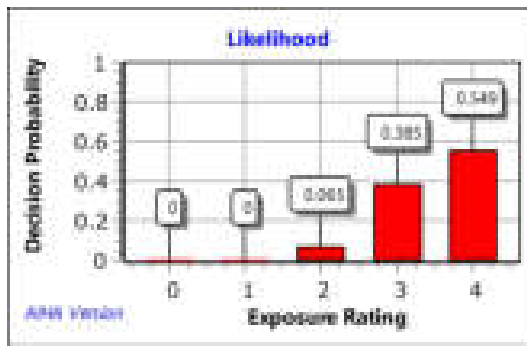
Exposure source: Handling of fine dust with the help of shovel creates more airborne dust.

PPEs: He used a Venus V 44+ mask.

Result and statistical analysis:

Silica (TLV-TWA):

A total of three silica personal air samples were collected during operation of proportioning building bottom area. Results of all the three samples of quartz & cristobalite were below the limit as per the ACGIH & the Indian Factories Act, 1948. The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 4 (50%), indicating poorly controlled exposure.



Recommendation:

- It is suggested to conduct respiratory fit test of the employees and provide them training on “Awareness on PPEs with Storage and maintenance of PPEs”.

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
4	Sinter	Proportioning top area	Silica	Plant operation	3	0	0.025 mg/m ³	2

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	17-1-24	V/1701/SI 04	Silica- Quartz	Jitendra kumar	07:56	14:17	381	701	2.478	944.12	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
2	18-1-24	V/1801/SI 12	Silica- Quartz	Narayan Ghadi	08:26	14:19	353	363	2.503	883.56	0.0069	0.005	3.33
			Silica Cristobalite								< 5 µg	< 5 µg	NA
3	19-1-24	V/1901/SI 26	Silica- Quartz	Munna Sharma	08:00	14:21	381	622	2.48	947.74	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA

Observations:

V/1701/SI 04: The employee was involved in the routine supervision work of proportioning building top area of the sinter plant during the monitoring.

V/1801/SI 12: The employee was involved in the routine supervision work of proportioning building top area of the sinter plant during the monitoring. The employee was also involved in spraying water on the ground floor to reduced dust exposure. He also collected the dry material from the ground surface at the feeder below the hopper with the help of a shovel and fill it back into a wheelbarrow. He had also visited the lime stone area to solve query.

V/1901/SI 26: The employee was involved in the routine supervision work of proportioning building top area of the sinter plant during the monitoring. He was involved in cleaning for half an hour during the monitoring.

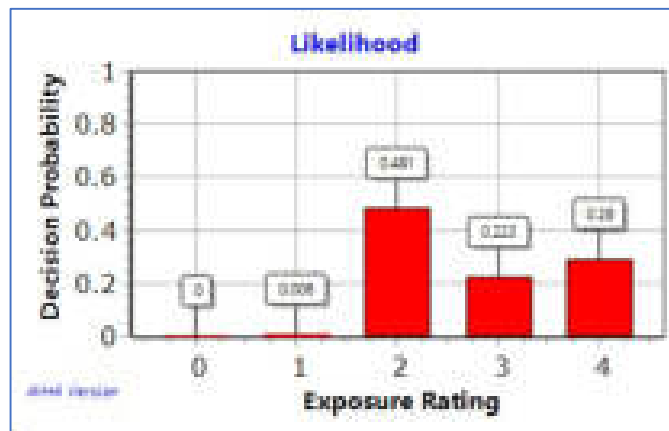
Exposure source: -

Existing control measures: LEV (local exhaust ventilation).

Result and statistical analysis:

Silica (TLV-TWA):

A total of three silica personal air samples were collected during operation of proportioning building top area. Results of all the three samples of quartz & cristobalite were below the limit as per the ACGIH & the Indian Factories Act, 1948. The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 2, indicating well controlled exposure.



Recommendation: -

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
5	Sinter	Proportioning bottom	Silica	Housekeeping	3	0	0.025 mg/m ³	4

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	17-1-24	V/1701/SI 06	Silica- Quartz	Manshi Marani	09:20	16:40	440	760	2.44	1077.56	0.0062	0.0056	2.22
			Silica Cristobalite								< 5 µg	< 5 µg	1.11
2	18-1-24	V/1801/SI 17	Silica- Quartz	Tunnu Paswan	09:05	16:37	452	622	2.46	1115.31	0.021	0.019	2.7
			Silica Cristobalite								< 20 µg	< 20 µg	1.35
3	19-1-24	V/1901/SI 27	Silica- Quartz	Gudvan Chaudhry	09:01	16:48	467	363	2.48	1160.26	0.011	0.01	2.5
			Silica Cristobalite								< 5 µg	< 5 µg	1.25

V/1701/SI 06: The employee was involved in the cleaning operation during the monitoring. He cleaned the crusher area and spillage of the coke material with the help of a shovel, and then put it into the silo (hopper).

V/1801/SI 17: The employee was involved in the cleaning operation during the monitoring. He cleaned the crusher area and spillage of the coke material with the help of a shovel, and then put it into the silo (hopper).

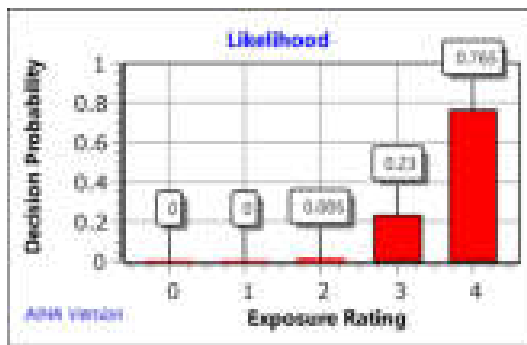
V/1901/SI 27: The employee was involved in the cleaning operation during the monitoring. He cleaned the crusher area and spillage of the coke material with the help of a shovel, and then put it into the silo (hopper). He was also involved in RL-1 conveyor housekeeping.

Exposure source: Handling of material (fine dust) with shovel and fill it again into hopper is a major reason to get personal exposure.

Existing control measures: PPES: Venus V-44+ respirator

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air samples were collected in the proportioning bottom building area worker of calcium oxide. Three samples of exposure were below the TLV-TWA as per the ACGIH silica quartz and silica cristobalite (0.025 mg/m³). The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 4, indicating poorly controlled exposure.



Powder transfer system

Recommendations:

- It is recommended to use powder transfer system (PTS) to collect the material (dust/waste) from the floor instead of shovel and transfer it directly to the hopper by keeping other end of the PTS inside the hopper to reduce the dust exposure.
- It is suggested to conduct respiratory fit test of the employees and provide them training on “Awareness on PPEs with Storage and maintenance of PPEs”.
- Recommended to prevent leakages and perform maintenance of lines and quick line bunkers to reduce further dust exposure in the area.
- Check availability and feasibility to provide well ventilated proper enclosed cabin for the operator to reduce noise and dust exposure.
- It is suggested to conduct personal hygiene monitoring again after implementation of the above mentioned suggestions to verify its effectiveness.

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
6	Sinter	Sinter machine building	Silica	Operation	3	0	0.025 mg/m ³	1

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	17-1-24	V/1701/SI 09	Silica- Quartz	Bal Krishna	15:57	22:01	364	622	2.46	898.17	< 30 µg	< 30 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
2	18-1-24	V/1801/SI 20	Silica- Quartz	Bal Krishna	15:47	21:52	365	701	2.53	925.82	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
3	19-1-24	V/1901/SI 31	Silica- Quartz	Bal Krishna	15:43	22:06	383	760	2.47	949.46	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA

V/1701/SI 09: The employee was involved in operations and supervision at the sinter machine building in the sinter plant during monitoring. He was involved in supervision of the incoming material through free drum material onto the pallet car and also checked temperature. He visited 14 meters level four times, the fed drum area eighteen times, the jet 2 area four times, the discharge area sixteen times, and the control room ten times during the monitoring.

V/1801/SI 20: The employee was involved in operations and supervision at the sinter machine building in the sinter plant during monitoring. He was involved in supervision of the incoming material through free drum material onto the pallet car and also checked temperature. He visited 14 meters level three to four times, the fed drum fifteen times, the jet 2 area four to five times, the discharge area fifteen times, and the control room 10 times during the monitoring.

V/1901/SI 31: The employee was involved in operations and supervision at the sinter machine building in the sinter plant during monitoring. He was involved in supervision of the incoming material through free drum material onto the pallet car and also checked temperature. He visited 14 meters level five times, the fed drum fifteen to sixteen times, the jet 2 area five times, the discharge area fifteen times, and the control room ten to twelve times during the monitoring.

Exposure source: -

Existing control measures:-

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air samples of silica were collected in sinter machine building area. All the results are below detection limit and below the TLV_TWA of silica as per the ACGIH and The Indian Factories Act, 1948. As all the results are below detection limit we are not providing statistical data. Exposure is highly controlled.

Recommendation -

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
7	Sinter	Sinter machine building	Silica	Helper	3	0	0.025 mg/m ³	1

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	17-1-24	V/1701/SI 08	Silica- Quartz	Sunil Prasad	15:54	22:09	375	701	2.47	927.375	< 30 µg	< 30 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
2	18-1-24	V/1801/SI 21	Silica- Quartz	Manjit Kumar	15:39	22:00	381	363	2.51	959.93	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
3	19-1-24	V/1901/SI 32	Silica- Quartz	Manjit Kumar	15:41	21:59	378	622	2.45	927.423	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA

V/1701/SI 08: The employee was involved in housekeeping operations at the sinter machine building at sinter plant during monitoring. He was involved in picking up dust material from the ground and depositing it into a sinter bunker and a raw material bunker. After completion of work at 14 meter level he used to stay on the jet 2nd floor for cleaning. Throughout the monitoring period, he spent six hours exclusively on the Jet 2 floor for cleaning tasks.

V/1801/SI 21: The employee was involved in housekeeping operations at the sinter machine building at sinter plant during monitoring. He was involved in picking up dust material from the ground and depositing it into a sinter bunker and a raw material bunker. After completion of work at 14 meter level he used to stay on the jet 2nd floor for cleaning. Throughout the monitoring period, he spent six hours exclusively on the Jet 2 floor for cleaning tasks.

V/1901/SI 32: The employee was involved in housekeeping operations at the sinter machine building at sinter plant during monitoring. He was involved in picking up dust material from the ground and depositing it into a sinter bunker and a raw material bunker. After completion of work at 14 meter level he used to stay on the jet 2nd floor for cleaning. Throughout the monitoring period, he spent six hours exclusively on the Jet 2 floor for cleaning tasks.

Exposure source: Man movement and cleaning will generate some airborne particles in the area.

Existing control measures: -

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air samples were collected in sinter machine building area helper of silica. Three samples of exposure were below the TLV-TWA as per the ACGIH silica quartz and silica cristobalite 0.025 mg/m^3 . As all the results are below detection limit we are not providing statistical data. Exposure is highly controlled.

Recommendation :-

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
8	Sinter	Sinter loading area	Silica	Helper	3	0	0.025 mg/m ³	4

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	17-1-24	V/1701/SI 10	Silica- Quartz	Ram Prabhahans	16:00	22:06	366	363	2.48	910.242	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
2	18-1-24	V/1801/SI 19	Silica- Quartz	Ram Prabhahans	15:55	21:58	363	760	2.56	930.914	0.021	0.016	2.3
			Silica Cristobalite								< 5 µg	< 5 µg	1.06
3	19-1-24	V/1901/SI 30	Silica- Quartz	Ram Prabhahans	15:44	21:55	371	701	2.50	928.428	0.0063	0.004	2.86
			Silica Cristobalite								< 5 µg	< 5 µg	1.43

V/1701/SI 10: The employee was involved in supervision at the sinter loading area during monitoring. He was involved in supervision at the screening building, cooler area, and product bunker. He had visited product bunker area seven times during the monitoring. He had visited the sinter product bunker three times at the LS2 tail-ante as well as the C4 tail-ante. He had also taken a round at the screening building of sinter four to five times during the monitoring.

V/1801/SI 19: The employee was involved in supervision at the sinter loading area during monitoring. He was involved in supervision at the screening building, cooler area, and product bunker. He had visited product bunker area seven times during the monitoring. He had visited the sinter product bunker three times at the LS2 tail-ante as well as the C4 tail-ante. He had also taken a round at the screening building of sinter six times during the monitoring.

V/1901/SI 30: The employee was involved in supervision at the sinter loading area in the sinter plant during monitoring. He was involved in supervision at the screening building, cooler area, and product bunker. He had visited product bunker area nine times during the monitoring. He had visited the sinter product bunker three times at the LS2 tail-ante as well as the C4 tail-ante. He had also taken a round at the screening building of sinter seven times during the monitoring.

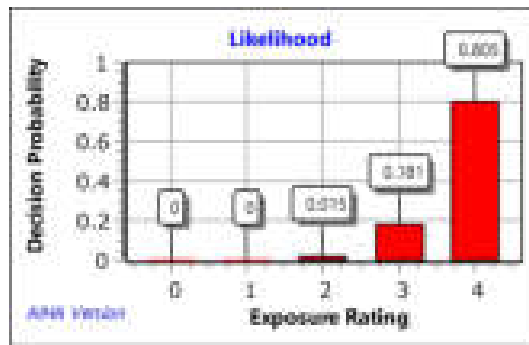
Exposure source: Exposure to the sinter screening building occurred when the material, coming from the belt, was directed to the crusher through the discharging chute. Although a local exhaust ventilation (LEV) system was available in the discharging chute, but still airborne dust was observed. it proved

ineffective, leading to dust exposure in the screening area. There was also exposure to sinter at the product bunker when the material, arriving on the belt, was diverted by the C4 trolley by a discharge chute for feeding into the bunker. A gap of approximately 1 foot between the grizzly and the discharge chute allowed for less dense particles.

Existing control measures: Cotton mask, LEV (local exhaust ventilation) system

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air samples were collected in sinter loading area on operator to check silica exposure. Three samples of exposure were below the limit as per the ACGIH TLV-TWA of silica quartz and cristobalite. Results are also below PEL limit of silica as per The Indian Factories Act, 1948. The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 4, indicating poorly controlled exposure.



Recommendations:

- It is recommended to perform maintenance of LEV system to improve its efficiency.
- Suggested to provide respiratory protection against silica dust of 5 APF and perform fit test to provide better protection to the employees.
- Recommended to reduce the height of the discharge chute and surface on which material is falling to reduce the area dust exposure.

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
9	Sinter	All de-dusting units	Silica	Operator	3	0	0.025 mg/m ³	1

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	17-1-24	V/1701/SI 11	Silica- Quartz	Niraj Chauhan	16:07	21:52	345	810	2.49	859.05	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
2	18-1-24	V/1801/SI 22	Silica- Quartz	Niraj Chauhan	15:53	22:11	378	810	2.55	965.412	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
3	19-1-24	V/1901/SI 33	Silica- Quartz	Niraj Chauhan	16:15	22:02	347	810	2.47	858.131	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA

V/1701/SI 11: The employee was involved in operation of control panels of five de-dusting units in the sinter plant during monitoring. He had loaded ten trucks (20 minutes each) during the monitoring period.

V/1801/SI 22: The employee was involved in operation of control panels of five de-dusting units in the sinter plant during monitoring. He had loaded five trucks (20 minutes each) during the monitoring period.

V/1901/SI 33: The employee was involved in operation of control panels of five de-dusting units in the sinter plant during monitoring. He had loaded three trucks (20 minutes each) during the monitoring period.

Exposure source: -

Existing control measure: LEV (local exhaust ventilation)

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air samples were collected one the operator of all de dusting area to check exposure of silica. Results of all the three samples were below detection limit. As results are below detection limit we cannot calculate statistical data. Exposure is highly controlled.

Recommendations: -

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
10	PID-1	Slag drier area	Silica	Helper	3	0	0.025 mg/m ³	1

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	20-1-24	V/2001/SI 36	Silica- Quartz	Kanhu Tudu	07:34	14:44	430	701	2.42	1041.89	< 30 µg	< 30 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
2	20-1-24	V/2001/SI 41	Silica- Quartz	Ramesh Vilayam	16:20	22:45	385	701	2.48	957.11	< 30 µg	< 30 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
3	22-1-24	V/2201/SI 46	Silica- Quartz	Ramesh Vilayam	08:06	14:29	383	622	2.49	956.35	< 30 µg	< 30 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA

V/2001/SI 36: The employee participated in cleaning activities at the slag dryer plant of PID-1. During the monitoring, he cleaned the chipping room once for 30 minutes, conducted kiln bottom cleaning, and cleaned the cyclone area five times for 20 minutes each.

V/2001/SI 41: The employee was involved in cleaning activities at the slag dryer plant of PID-1. During the monitoring, he cleaned the chipping room three times for 20 minutes each, conducted bunker cleaning four times for 15 to 20 minutes each, removed cyclone material, and poured it onto the conveyor belt. He spent a total of one hour putting fifteen to twenty materials on the belt.

V/2201/SI 46: The employee participated in cleaning activities at the slag dryer plant of PID-1. During the monitoring, he cleaned the chipping room once for 20 minutes, conducted bunker cleaning twice for 30 minutes each, cleaned the ID fan once, and cleaned spillage of slag material before transferring it with the help of a trolley. He loaded and unloaded the trolley a total of 15 times within one hour.

Exposure source: Airborne dust was generated during cleaning.

Existing control measure: Cotton mask-without APF

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air samples were collected in slag dryer area on helper to check their exposure to silica. The results of all three samples were below TLV-TWA as per the ACGIH and PEL provided by the Indian Factories Act, 1948. Exposure is highly controlled.

Recommendations: -

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
11	PID-1	BF-1 Sizer area	Silica	Wheel loader driver	3	0	0.025 mg/m ³	4

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	23-1-24	V/2301/SI 49	Silica- Quartz	Vijay	07:23	14:00	397	810	2.45	972.65	0.022	0.018	3.57
			Silica Cristobalite	Hemabron							< 5 µg	< 5 µg	NA
2	02-2-24	V/0202/SI 134	Silica- Quartz	Vinod	08:12	14:37	385	810	2.49	959.998	0.01	0.008	2.56
			Silica Cristobalite	Chaudhary							< 5 µg	< 5 µg	NA
3	02-2-24	V/0202/SI 135	Silica- Quartz	Vijay	15:15	22:34	439	620	2.50	1099.04	0.018	0.016	2.44
			Silica Cristobalite	Hembrom							< 5 µg	< 5 µg	NA

Observations:

V/2301/SI 49: He was involved in loading of different-different material like limestone, dolomite, etc. He had completed loading of the material ten times during monitoring. Dust was airborne due to heavy vehicle movement and personal exposure was observed as driver kept his door in open condition.

V/0202/SI 134: He was involved in loading of different-different material like limestone, dolomite, etc. He had completed loading of the material ten times during monitoring. Dust was airborne due to heavy vehicle movement and personal exposure was observed as driver kept his door in open condition.

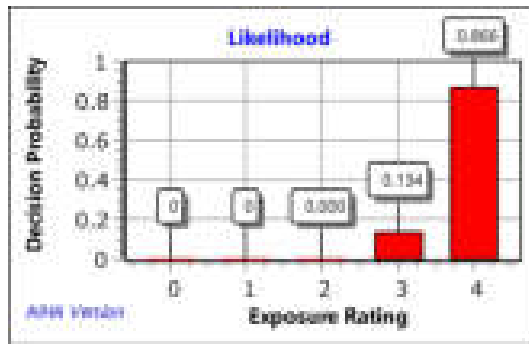
V/0202/SI 135: The employee was involved in a wheel loader operation at BF-1, BF-2, and the coke shade area. He was involved in loading materials from the yard and unloading them into a hopper. He had completed loading of the material ten times during monitoring.

Exposure source: Heavy vehicle movement, unloading of the material into the hopper were contributing factor for high exposure. Personal exposure was available as the wheel loader driver kept his cabin door in open condition.

Existing control measure: Cotton mask

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air samples of silica were collected in BF-1 sizer area to check personal exposure of wheel loader driver. Results of all the three samples were below the TLV-TWA as per the ACGIH silica quartz and silica cristobalite 0.025 mg/m^3 . The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 4, indicating poorly controlled exposure.



Recommendation to reduce the exposure:

- It is suggested to provide them respiratory protection of 5 APF and conduct respiratory fit test of the employees and provide them training on “Awareness on PPEs with Storage and maintenance of PPEs”.

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
12	PID-1	Dispatch area	Silica	Wheel loader driver	3	0	0.025 mg/m ³	1

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	23-1-24	V/2301/SI 50	Silica- Quartz	Sanjay Prajapati	09:25	14:37	312	760	2.495	778.44	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
2	01-2-24	V/0102/SI 122	Silica- Quartz	Sam Naik	07:40	14:56	436	701	2.48	1084.33	< 30 µg	< 30 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
3	01-2-24	V/0102/SI 132	Silica- Quartz	Sunil Prajapati	07:56	14:23	387	363	2.43	940.41	< 30 µg	< 30 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA

V/2301/SI 50: The employee was involved in wheel loader operation at the dispatch area. During the monitoring, he was involved in loading slag onto seven trucks, three of them being large trucks for 10 minutes each and five small trucks for 5 minutes each. Additionally, he loaded pigs onto two trucks for a total of 14 minutes. He was also involved in material stacking and screening for 4 to 5 hours and spent 1 hour loading screened material.

V/0102/SI 122: The employee was involved in wheel loader operation at the dispatch area. During the monitoring, he was involved in loading slag onto eight to nine trucks for 10 minutes each. Additionally, he loaded pigs onto two trucks for a total of 14 minutes. He was involved in pig screening for 2 hours.

V/0202/SI 132: The employee was involved in wheel loader operation at the dispatch area. During the monitoring, he was involved in loading seven trucks during a shift.

Exposure source: Dust was airborne in the area due to heavy vehicle movement.

Existing control measure: Cotton mask, enclose cabin

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air samples of silica were collected in dispatch area to check personal exposure of wheel loader driver. Results of all the three samples of silica quartz and cristobalite was below the detection limit & the TLV-TWA as per the ACGIH and PEL-TWA of the Indian Factories Act, 1948. The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 1, indicating highly controlled exposure.

Recommendations: -

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
13	PID-1	Dispatch area	Silica	Helper	3	0	0.025 mg/m ³	4

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	23-1-24	V/2301/SI 52	Silica- Quartz	Samir Gawas	09:09	14:28	319	622	2.48	792.715	0.0081	0.005	2.86
			Silica Cristobalite								< 5 µg	< 5 µg	NA
2	25-1-24	V/2501/SI 71	Silica- Quartz	Prem Pathak	08:13	14:28	375	760	2.51	918.75	0.0064	0.05	3.03
			Silica Cristobalite								< 5 µg	< 5 µg	NA
3	30-1-24	V/3001/SI 93	Silica- Quartz	Samir Gawas	07:54	14:06	372	622	2.48	924.42	0.018	0.013	2.78
			Silica Cristobalite								< 5 µg	< 5 µg	NA

V/2301/SI 52: The employee was involved in multitasking jobs at the dispatch area. He sorted pigs, sprinkled water in the area, cleaned identification boards, and loaded pigs into trucks to maintain truck weight. Additionally, he loaded pigs into the wheel loader bucket for 30 minutes and mixed the pigs with other pigs.

V/2501/SI 71: The worker was involved in skull separation manually. The worker was also involved in skull screening, truck loading, and unloading. He separated the skull from two trucks and loaded one truck, and hiping was done four times in his 8-hour shift.

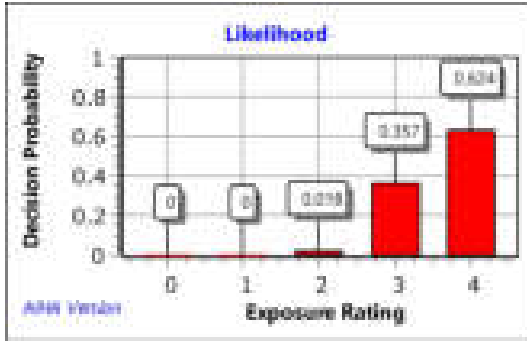
V/3001/SI 93: The employee was involved in multitasking jobs at the dispatch area. He spent 2 to 3 hours sorting pigs, sprinkled water in the area twice for 20 minutes each, cleaned identification boards, and removed pigs from trucks to maintain truck weight for 1 hour. Additionally, he provided weighbridge slips to truck drivers for the weighbridge operating person, giving a total of fifteen slips during the monitoring.

Exposure source: The source of exposure was the dust in the environment due to heavy vehicle movement in the area.

Existing control measure: -

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air samples of silica were collected in dispatch area to check personal exposure of the helper. Results of all the three samples were below the TLV-TWA of silica as per the ACGIH and PEL-TWA of silica as per the Indian Factories Act, 1948. The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 4, indicating poorly controlled exposure.



Recommendation:

- It is suggested to provide them respiratory protection of 5 APF and conduct respiratory fit test of the employees and provide them training on “Awareness on PPEs with Storage and maintenance of PPEs”.



Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
14	PID-1	BF-2 raw material yard	Silica	Truck driver	3	0	0.025 mg/m ³	4

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	23-1-24	V/2301/SI 53	Silica- Quartz	Dinesh Gawrav	08:06	14:15	369	363	2.49	920.655	0.024	0.018	3.57
			Silica Cristobalite								< 5 µg	< 5 µg	NA
2	02-2-24	V/0202/SI 130	Silica- Quartz	Babulal	07:47	14:20	393	701	2.36	954.99	0.0083	0.0067	3.57
			Silica Cristobalite								< 5 µg	< 5 µg	NA
3	02-2-24	V/0202/SI 131	Silica- Quartz	Rajesh Bandekar	07:49	14:12	383	760	2.47	957.5	0.0062	0.0049	2.86
			Silica Cristobalite								< 5 µg	< 5 µg	NA

V/2301/SI 53: The employee was involved in truck driving at the BF-2 raw material yard. He had completed four trips (three at the BF-3 area and one at the jetty area, involving loading and unloading of materials) totalling 3 hours during monitoring. He kept his cabin door in close condition.

V/0202/SI 130: The employee was involved in truck driving at the BF-2 raw material yard. He had completed loading and unloading of 12 trucks during monitoring. He kept his cabin door in close condition.

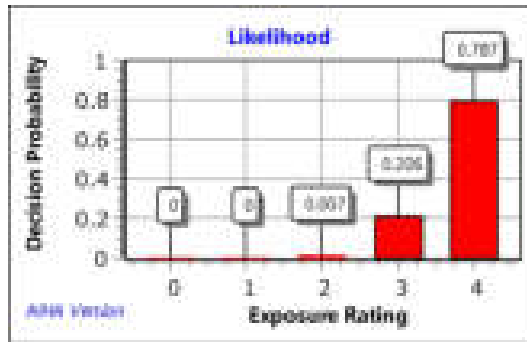
V/0202/SI 131: The employee was involved in truck driving at the BF-2 raw material yard. He had completed loading and unloading of 15 trucks during monitoring. He kept his cabin door in close condition.

Exposure source: Dust was airborne due to heavy vehicle movement in the area but due to water spray in the area, airborne dust was less.

Existing control measure: Enclose cabin

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air samples of silica were collected in BF-2 sizer area to check personal exposure of truck driver. Results of all the three samples were below the TLV-TWA as per the ACGIH and PEL-TWA as per the Indian Factories Act, 1948. The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 4, indicating poorly controlled exposure.



Recommendations:

- It is suggested to provide them respirators with APF of 5, conduct respiratory fit test of the employees and provide them training on “Awareness on PPEs with Storage and maintenance of PPEs”.

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
15	PID-1	BF-2 raw material yard	Silica	Spotter	3	0	0.025 mg/m ³	1

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	23-1-24	V/2301/SI 54	Silica- Quartz	Babal Gavkar	08:17	14:17	360	701	2.51	903.6	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
2	01-2-24	V/0102/SI 129	Silica- Quartz	Ramji Murmur	16:02	22:00	358	622	2.55	913.258	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA
3	01-2-24	V/0102/SI 133	Silica- Quartz	Babal Gaonkar	08:01	14:25	384	810	2.44	936.96	< 5 µg	< 5 µg	NA
			Silica Cristobalite								< 5 µg	< 5 µg	NA

V/2301/SI 54: The employee was working as spotter at the BF-2 raw material yard. He participated in the unloading of a total of seventy trucks during the monitoring, spending 1.5 minutes on each truck.

V/0102/SI 129: The employee was working as spotter at the BF-2 raw material yard. He participated in the unloading of a total of sixty trucks during the monitoring, spending 1.5 minutes on each truck.

V/0202/SI 133: The employee was working as spotter at the BF-2 raw material yard. He participated in the unloading of a total of forty trucks during the monitoring, spending 1.5 minutes on each truck.

Exposure source: Dust was airborne due to heavy vehicle movement in the area.

Existing control measure: No

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air silica samples were collected in BF-2 sizer area to check personal exposure of truck driver. Results of all the three samples were below the TLV-TWA as per the ACGIH of silica and PEL-TWA as per the Indian Factories Act, 1948. The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 1, indicating highly controlled exposure.

Recommendations: -

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
16	MCD	Jetty area	Silica	Helper	3	0	0.025 mg/m ³	1

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	24-01-2024	V/2401/SI 65	Silica- Quartz	Lukash Sorel	15:29	21:57	388	622	2.52	978.342	< 5.0 µg	< 5.0 µg	NA
			Silica Cristobalite								< 5.0 µg	< 5.0 µg	NA
2	25-01-2024	V/2501/SI 70	Silica- Quartz	Mahesh Gavkar	08:02	14:14	372	810	2.48	894.66	< 5.0 µg	< 5.0 µg	NA
			Silica Cristobalite								< 5.0 µg	< 5.0 µg	NA
3	25-01-2024	V/2501/SI 72	Silica- Quartz	Manohar Chari	07:59	14:15	376	701	2.48	932.48	< 5.0 µg	< 5.0 µg	NA
			Silica Cristobalite								< 5.0 µg	< 5.0 µg	NA

V/2401/SI 65: The employee was involved in the cleaning of the barge with the help of a shovel. During the monitoring, the employee removed the pump at 7 o'clock due to the 12-hour shift and then reattached it at 7:10 o'clock after the shift change.

V/2501/SI 70: He was involved in the cleaning operation during monitoring. He cleaned the barge once and removed the cover, which was covering Jetty. He also did spillage cleaning, in which exposure was high. He also did valve operation activity for sometime.

V/2501/SI 72: He was working as a helper during monitoring. He did spillage cleaning during that time and removed the cover, which was on Jetty. The exposure was during spillage cleaning.

Exposure source: Cleaning is generating too much dust in the area.

Existing control measure: Cotton mask

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air silica samples were collected in jetty area to check personal exposure of helper. Results of three samples were below the TLV-TWA as per the ACGIH and PEL-TWA as per the Indian Factories Act, 1948. The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 1, indicating highly controlled exposure.

Sr. No	Location	Area	Chemical name	Activity	Total no of samples collected	Total no of samples having higher results	ACGIH TLV-TWA	IHDA categorized Exposure
17	MCD	Jetty area	Silica	Valve operator	3	0	0.025 mg/m ³	1

Sampling data:

Sr. No	Date	Sample ID	Chemical	Employee name	Start time	Stop time	Total duration (Minutes)	Pump no	Avg. Flow (LPM)	Volume (L)	Results (mg/m ³)	TWA concentration (mg/m ³)	The Indian Factories Act PEL(mg/m ³)
1	25-01-2024	V/2501/SI 69	Silica- Quartz	Gugda Marandi	08:12	14:17	365	892	2.49	883.3	< 5.0 µg	< 5.0 µg	NA
			Silica Cristobalite								< 5.0 µg	< 5.0 µg	NA
2	30-01-2024	V/3001/SI 92	Silica- Quartz	Gopal Murmur	07:46	13:56	370	760	2.52	933.325	< 5.0 µg	< 5.0 µg	NA
			Silica Cristobalite								< 5.0 µg	< 5.0 µg	NA
3	01-02-2024	V/0102/SI 123	Silica- Quartz	Sharpanch Kisku	07:31	13:51	380	701	2.48	933.28	< 5.0 µg	< 5.0 µg	NA
			Silica Cristobalite								< 5.0 µg	< 5.0 µg	NA

V/2501/SI 69: He was involved in valve operation during monitoring. In the working environment, coal dust and particles were suspended in the air in large amounts. He sits exactly above the truck filling, which increases the exposure. He filled 30 trucks during that day.

V/3001/SI 92: He was involved in valve operation during monitoring. In the working environment, coal dust and particles were suspended in the air in large amounts. He sits exactly above the truck filling, which increases the exposure. He filled 50 trucks during that day.

V/0102/SI 123: He was involved in valve operation during monitoring. In the working environment, coal dust and particles were suspended in the air in large amounts. He sits exactly above the truck filling, which increases the exposure. He filled 80 trucks during that day.

Exposure source: Dust was airborne during filling of the material into the truck.

Existing control measure: Cotton mask

Result and statistical analysis:

Silica (TLV-TWA): A total of three personal air silica samples were collected in jetty area to check personal exposure of operator. Results of all the three samples were below the TLV-TWA as per the ACGIH and PEL-TWA as per the Indian Factories Act, 1948. The Industrial Hygiene Data Analysis (IHDA) statistical analysis tool categorized exposure as 1, indicating highly controlled exposure.

Recommendations: -

4. Abbreviations:

Short form	Full form
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
ABIH	American Board of Industrial Hygienist
APF	Assigned Protection Factor
BDL	Below Detection Limit
BL	Blank
CIH	Certified Industrial Hygienist
IH	Industrial Hygiene
MCE	Mixed Cellulose Easter
NRR	Noise Reduction Rating
NIOSH	The National Institute for Occupational Safety and Health
OSHA	The Occupational Safety and Health Administration
LEV	Local Exhaust Ventilation
PEL	Permissible Exposure Limit
ppm	Parts per million
PVC	Polyvinyl chloride
SIHS	SHAH Industrial Hygiene Solutions
STEL	Short Term Exposure Limit
TIFA	The Indian Factories Act
TLV	Threshold Limit Value
TWA	Time Weighted Average

During the assessment, we appreciate the cooperation and support we received from all levels of professionals from Vedanta Ltd, Sesa Goa.

Report Prepared By

Review By

Jay Suvagiya

Maulik Shah CIH

SHAH Industrial Hygiene Solutions, Vadodara

SHAH Industrial Hygiene Solutions, Vadodara

Appendix 1: CIH Certificate

The Board for Global EHS Credentialing® (BGC®)

through its vested authority, hereby confirms that

Maulik Shah

has met all requirements of education, experience, and examination set forth through the BGC's American Board of Industrial Hygiene® (ABIH®) credentialing division for initial certification in the Comprehensive Practice of Industrial Hygiene and is thereby conferred the credential of

Certified Industrial Hygienist® (CIH®)

The aforementioned individual is given all rights, privileges, and responsibilities as both a diplomate of the BGC and holder of the CIH credential, provided that the credential is not suspended or revoked, and it is renewed annually. Moreover, the holder must meet all recertification requirements, including the obligation to practice ethically as prescribed by the BGC.



Credential Number: 12177 CP
Award Date: November 4, 2020
Expiration Date: June 1, 2026



Cynthia Hanko, CIH
Chair of the Board of Directors



Ulric K. Chung, MCS, PhD
Chief Executive Officer and Secretary

Appendix 2: Calibration Certificates



TECHNOVISION ANALYTICAL

Plot No. 5285, Barkpada, Bhoir chowk, Ambemath (E), Thane, (Maharashtra) - 421501
 Contact : +91 832059 9400 • Email id : technovisionanalytical@gmail.com

Calibration Certificate

Issued by:- TECHNOVISION ANALYTICAL

Certificate No:- TYA/CAL/PSF003-24935

Customer Name & Address: SHAH INDUSTRIAL HYGIENE SOLUTIONS, VADODARA
Instrument Model: Apex2 IS Personal Sampling Pump
Serial No.: 2018790
Model Number: Apex2 IS Standard
Firmware Version: 2.1.007.01.00

Test Conditions:

Temperature:- 30.8°C
Humidity:- 21 %
Pressure:- 1028.1 mbars
Calibration Date:- 07/06/2023 **Cal. Due Date :-** 06/09/2024

Equipment Used:

Air Flow Calibrator (1791143), Calibration Due Date- 11/12/2023

Test and Calibration Results:

Set Flow Point (L/Min)	Measured Flow Rate (L/Min)	Error (Units%)		Status
		Min	Max	
5000	5002	-0%	+0%	Pass
4000	3999	-0%	+0%	Pass
3000	3001	-0%	+0%	Pass
2000	2001	-0%	+0%	Pass

Calibration done by:



GSTIN : 27ADZPY9388E1ZN



TECHNOVISION ANALYTICAL

Plot No. 5285, Barkhpada, Shiv chowk, Ambemath (E), Thane, (Maharashtra) - 421501
Contact : +91 828658 9499 • Email id : technovisionanalytical@gmail.com

Calibration Certificate

Issued by:- TECHNOVISION ANALYTICAL

Certificate No:- TVA/CAL/ISP/2023-24/014

Customer Name & Address SHAH INDUSTRIAL HYGIENE SOLUTIONS, VADODARA.
Instrument Model Apex2 IS Personal Sampling Pump
Serial No 2018701
Model Number Apex2 IS-Standard
Purchase Version 211.007.01.00

Test Conditions:-

Temperature :- 30.8°C
Humidity :- 21 %
Pressure :- 1003.1 mbar
Calibration Date :- 07/05/2023 **Cal. Due Date** :- 08/08/2024

Equipment Used:

Air Flow Calibrator (J 791163), Calibration Due Date: 11/12/2023

Test and Calibration Results:

Set flow Point (ML/Min)	Measured flow Rate (ML/Min)	Error Limits(%)		Status
		Min	Max	
5000	5003	-0%	+0%	Pass
4000	3998	-0%	+0%	Pass
3000	3001	-0%	+0%	Pass
2000	2000	-0%	+0%	Pass

Calibration done by:



GSTIN : 27APZPY938E12N



TECHNOVISION ANALYTICAL

Plot No. 5285, Sarkajada, Bhoir chowk, Amhermath (E) Thane, (Maharashtra) - 421501
Contact : +91 838600 0400 • Email id : technovisionanalytical@gmail.com

Calibration Certificate

Issued to:- TECHNOVISION ANALYTICAL

Certificate No:- TV/CAL/PSP/2023-24/003

Customer Name & Address SHAH INDUSTRIAL HYGIENE SOLUTIONS, VADODARA
Instrument Model Apex3 IS Personal Sampling Pump
Serial No 2018807
Model Number Apex3 IS Standard
Factory Warranty 213,660.01.00

Test Conditions:

Temperature :- 30.7°C

Humidity:- 61%

Pressure:- 1003.1 mBar

Calibration Date:- 07/09/2023

Cal. Due Date :- 06/09/2024

Equipment Used:

AP Flow Calibrator (1791163), Calibration Due Date- 11/03/2023

Test and Calibration Results:

Flow Rate Accuracy

Error (Actual%)

Set Flow Point (ML/min)	Measured Flow Rate (ML/Min)	Min	Max	Status
5000	4999	-0%	+0%	Pass
4000	3991	-0%	+0%	Pass
3000	2998	-0%	+0%	Pass
2000	2000	-0%	+0%	Pass

Calibration done by:



GSTIN : 27APZPY9083ELZN



TECHNOVISION ANALYTICAL

Plot No. 5285, Barkupada, Bhoir chowk, Ambernath (E), Thane, (Maharashtra) - 421501
Contact : +91 830059 0438* Email id : technovisionanalytical@gmail.com

Calibration Certificate

Issued by:- TECHNOVISION ANALYTICAL

Certificate No:- TYA/CAL/PSB/2023-24/002

Customer Name & Address SEHAH INDUSTRIAL HYGIENE SOLUTIONS, VADODARA.
Instrument Model Apex2 IS Personal Sampling Pump
Serial No 1817383
Model Number Apex2 IS Standard
Firmware Version 233.007.01.00

Test Conditions:-

Temperature :- 30.6°C
Humidity:- 21.5%
Pressure:- 1003.1 mBar
Calibration Date:- 01/01/2023 **Cal. Due Date :-** 08/06/2024

Equipment Used:

Air flow Calibrator (J179) (63), Calibration Due Date- 11/12/2023

Test and Calibration Results:

Set flow Point (ML/min)	Measured Flow Rate (ML/min)	Error (Units%)		Status
		Min	Max	
5000	5003	-0%	+0%	Pass
4000	3999	-0%	+0%	Pass
3000	3003	-0%	+0%	Pass
2000	1997	-0%	+0%	Pass

Calibration done by:



GSTIN : 27APZPY0061E1Z0



TECHNOVISION ANALYTICAL

Plot No. 5293, Barkpada, Bhoir chowk, Ambarnath (E), Thane, (Maharashtra) - 421541
 Contact : +91 83888 8408* Email id : technovisionanalytical@gmail.com

Calibration Certificate

Issued by:- TECHNOVISION ANALYTICAL

Certificate No:- TV/CAL/PSP/2023-24931

Customer Name & Address SHAH INDUSTRIAL HYGIENE SOLUTIONS, VADODARA.
Instrument Model Apex2 IS Personal Sampling Pump
Serial No 2018810
Model Number Apex2 IS Standard
Fitmentor Ver. No 243.007.01.00

Test Conditions:-

Temperature :- 30.8°C
Humidity :- 21 %
Pressure :- 1003.1 mBar
Calibration Date :- 01/09/2023

Cal. Due Date :- 08/09/2024

Equipment Used:

Air Flow Calibrator (1791167), Calibration Due Date: 11/10/2023

Test and Calibration Results:

Set flow Point (L/Min)	Measured flow Rate (L/Min)	Error Limits(%)		Status
		Min	Max	
5000	5080	-5%	+5%	Pass
4000	3990	-5%	+5%	Pass
3000	2992	-5%	+5%	Pass
2000	1999	-5%	+5%	Pass

Calibration done by:



GSTIN : 27APZPY01012N



TECHNOVISION ANALYTICAL

Plot No. 5265, Barkupada, Bhair chowk, Ambarnath (E), Thane, (Maharashtra) - 421501
Contact : +91 829039 0400 • Email id : technovisionanalytical@gmail.com

Calibration Certificate

Issued by:- TECHNOVISION ANALYTICAL

Certificate No:- TVA/CAL/PSP/2023-24/006

Customer Name & Address: SHAH INDUSTRIAL HYGIENE SOLUTIONS, YADODARA,

Instrument Model: Flow Detective Plus
Serial No: 4304376
Firmware Version: 213.007.01.00

Test Conditions:-

Temperature:- 31.5°C
Humidity:- 45 %
Pressure:- 1007.9 mBar
Calibration Date:- 11/06/2023 **Cal. Due Date:-** 14/06/2024

Equipment Used:-

Air Flow Calibrator (179148), Calibration Due Date:- 11/12/2023
Apeel9Pro (3251001), Calibration Due Date:- 11/12/2023

Test and Calibration Results:

Set flow Point (L/Min)	Measured flow Rate (L/Min)	Error Limits(%)		Status
		Min	Max	
5000	5001	-5%	+5%	Pass
4000	3999	-5%	+5%	Pass
3000	2998	-5%	+5%	Pass
2000	1998	-5%	+5%	Pass

Calibration done by:



QWEN : 27APKZP908062N



TECHNOVISION ANALYTICAL

Plot No. 2055, Baripada, Bhubaneswar, Ambamohi (E), Thana, (Bhubaneswar) - 751021
 Contact : +91 93090 0409 • Email id : technovisionanalytical@gmail.com

Calibration Certificate

Issued to: TECHNOVISION ANALYTICAL

Certificate No: TYA/CAL/PSF002-24/00

Customer Name & Address: JAYRYAN ENGINEERING & PROCESS TECHNOLOGY, BHARUCH, GUJARAT.
 Instrument Model: Aguc 10 Personal Sampling Pump
 Serial No: 1434891
 Model Number: Aguc 10 Standard
 Purchase Invoice: 210.007.01.00

Test Conditions:

Temperature: 37°C
 Humidity: 25 %
 Pressure: 1000.3 mbars
 Calibration Date: 22/01/2024 Cal. Due Date: 24/07/2024

Equipment Used:

Air Flow Calibrator (1701147), Calibration Due Date: 11/10/2024

Test and Calibration Results:

Set Flow Point (L/Min)	Measured Flow Rate (L/Min)	Error Limits (%)		Status
		Min	Max	
5000	5001	-0%	+0%	Pass
4000	4001	-0%	+0%	Pass
3000	3000	-0%	+0%	Pass
2000	2000	-0%	+0%	Pass

Calibration done by: 

QSTIN : STAFFPYSMEL24



TECHNOVISION ANALYTICAL

Plot No. 4245, Barapada, Bhubaneswar, Ambarnath (P), Thane, (Maharashtra) - 421601
 Contact : +91 82888 8888- Email id : technovisionanalytical@gmail.com

Calibration Certificate

Issued by:- TECHNOVISION ANALYTICAL

Certificate No:- TVACALUPRP0203-24008

Customer Name & Address: JAYRATAN ENGINEERING & PROCESS TECHNOLOGY, BEHARUDE, OUMBAT
Instrument Model: Approx D Personal Sampling Pump
Serial No: 1414887
Model Number: Approx D Standard
Pressure Version: 213.007.01.00

Test Conditions:

Temperature: 31°C
Humidity: 21 %
Pressure: 1008.1 mbars
Calibration Date: 25/07/2023 **Exp. Use Date:** 24/07/2024

Equipment Used:

Air Flow Calibrator (1791.102), Calibration Due Date: 01/12/2023

Test and Calibration Results:

Flow Rate Accuracy		Flow (L/min)		
Set Flow Point (L/Min)	Measured Flow Rate (L/Min)	Min	Max	Status
1000	998	-0%	+0%	Pass
4000	4002	-0%	+0%	Pass
10000	10001	-0%	+0%	Pass
20000	20000	-0%	+0%	Pass

Calibration done by:



QSTEN - ITAFZPY046129



TECHNOVISION ANALYTICAL

Plot No. 1995, Sakinaka, Near chowk, Ambarnath (E), Thane, (Maharashtra) - 401001
Contact : +91 88888 0400 • Email id : technovisionanalytical@gmail.com

Calibration Certificate

Issued by:- TECHNIVISION ANALYTICAL

Certificate No:- TV/CAL/PS/2023-04/11

Customer Name & Address: JATROYAN ENGINEERING & PROCESS TECHNOLOGY, BHARUCH, GUJARAT
Equipment Model: Agre2 IS Personal Sampling Pump
Serial No: 1884758
Model Number: Agre2 IS Standard
Equipment Serial: 111.817.81.00

Test Conditions:

Temperature: 31°C
Humidity: 31 %
Pressure: 1008.1 mBar
Calibration Date: 25/07/2023 **Cal. Due Date:** 24/07/2024

Equipment Used:

By Flow Calibrator (TR100), Calibration Due Date: 11/11/2023

Test and Calibration Results:

Set Flow Point (L/Min)	Measured Flow Rate (L/Min)	Flow Error(%)		Status
		Min	Max	
5000	5002	-0%	+0%	Pass
4000	4001	-0%	+0%	Pass
3000	3000	-0%	+0%	Pass
2000	2002	-0%	+0%	Pass

Calibration done by: 

QNTIN : 1TAP0PY0RME12N



TECHNOVISION ANALYTICAL

Plot No. 6286, Bahajpada, Bhairi chowk, Ambarnath (E), Thane, (Maharashtra) - 401021
Contact : +91 92889 9491 • Email id : technovisionanalytical@gmail.com

Calibration Certificate

Issued to: TECHNOVISION ANALYTICAL

Certificate No: TVA/CAL/PS/0023-24812

Customer Name & Address: JAYDEVAN ENGINEERING & PROCESS TECHNOLOGY, BHARUCH, GUJARAT.
Instrument Model: Apex 2 IS Personal Sampling Pump
Serial No: 1454778
Model Number: Apex 2 IS Standard
Previous Version: 21100781.00

Test Conditions:

Temperature: 30°C
Humidity: 71 %
Pressure: 1028.1 mBar
Collection Date: 21/01/2023 **Cal. Exp. Date:** 24/07/2024

Equipment Used:

Air Flow Calibrator (TFR 100), Calibration Exp. Date: 14/11/2023

Test and Calibration results:

Flow Rate Calibration		Error (±%)		
Set Flow Point (L/Min)	Measured Flow Rate (L/Min)	Min	Max	Status
1000	999	-0%	+1%	Pass
6000	6002	-0%	+0%	Pass
10000	10004	-0%	+0%	Pass
20000	1999	-0%	+0%	Pass

Calibration done by: 

QR CODE: 27AF6PYW8E12N



TECHNOVISION ANALYTICAL

Plot No. 8285, Barkhorda, Shri chavak, Amravathi (C), Taluka, (Maharashtra) - 427007
Contact : +91 82858 9489- Email id : technovisionanalytical@gmail.com

Calibration Certificate

Issued by: TECHNOVISION ANALYTICAL

Certificate No:- TYA/CAL/PS/2021-24611

Customer Name & Address: JAYVEEN ENGINEERING & PROCESS TECHNOLOGY, BHARUCH, GUJARAT.
Instrument Model: Apex 25 Personal Sampling Pump
Serial No: 2434008
Model Number: Apex 25 Standard
Equipment Name: 215.007.01.00

Test Conditions:

Temperature:- 31°C
 Humidity:- 31 %
 Pressure:- 1016.1 mbAr
 Calibration Date:- 25/07/2021 Cal. Use Date:- 24/10/2024

Equipment Used:

Air Flow Calibrator (1791187), Calibration Use Date:- 24/10/2021

Test and Calibration Results:

Set Flow Point (L/Min)	Measured Flow Rate (L/Min)	Flow Error(%)		Status
		Min	Max	
1000	1000	-0%	+0%	Pass
4000	4000	-0%	+0%	Pass
10000	10000	-0%	+0%	Pass
10000	10000	-0%	+0%	Pass

Calibration done by: 

Q1201 - 21APCFYR00120

Appendix 3: Laboratory Results:



NIOSH Job #: C453677
Report Date: 03/25/2024

SHAH Industrial Hygiene Solutions
Client Project #: 2024A024

ANALYTICAL RESULTS

Client ID:	WV 2024M04	Matrix:	Air			
NIJ Lab ID:	151784	Sample Media:	PVC Impinger Sam Tared			
Date Sampled:	01/11/2024	Air Volume (L):	783.4			
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	17	18	1.2	5.0	NIOSH 7500	03/25/2024
Crinoidalite	<5.0	<6.8	<0.8	5.0	NIOSH 7500	03/25/2024
Total (Quartz and Crinoidalite)	17	18	02	02	NIOSH 7500	03/25/2024

RL = Reporting Limit

Client ID:	WV 2024M04	Matrix:	Air			
NIJ Lab ID:	151784	Sample Media:	PVC Impinger Sam Tared			
Date Sampled:	01/11/2024	Air Volume (L):	779.14			
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	8.2	11	0.9	5.0	NIOSH 7500	03/25/2024
Crinoidalite	<5.0	<7.0	<0.40	5.0	NIOSH 7500	03/25/2024
Total (Quartz and Crinoidalite)	<10	<14	02	02	NIOSH 7500	03/25/2024

RL = Reporting Limit

Client ID:	WV 2024M04	Matrix:	Air			
NIJ Lab ID:	151784	Sample Media:	PVC Impinger Sam Tared			
Date Sampled:	01/11/2024	Air Volume (L):	808.75			
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	13	13	1.8	5.0	NIOSH 7500	03/25/2024
Crinoidalite	<5.0	<5.0	<0.40	5.0	NIOSH 7500	03/25/2024
Total (Quartz and Crinoidalite)	13	13	02	02	NIOSH 7500	03/25/2024

RL = Reporting Limit

Client ID:	WV 2024M04	Matrix:	Air			
NIJ Lab ID:	151784	Sample Media:	PVC Impinger Sam Tared			
Date Sampled:	01/11/2024	Air Volume (L):	844.13			
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<6.3	<0.50	5.0	NIOSH 7500	03/25/2024
Crinoidalite	<5.0	<5.3	<0.50	5.0	NIOSH 7500	03/25/2024
Total (Quartz and Crinoidalite)	<10	<12	10	10	NIOSH 7500	03/25/2024

RL = Reporting Limit

Client ID:	VJ1701/2018			Matrix:	Air	
BY Lab ID:	117146			Sample Media:	PVC 3-stage Sum Tared	
Date Sampled:	01/17/2018			Air Volume (L):	107.88	
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.4	<0.00	5.0	NIOSH 7500	02/21/2018
Crystalline	<5.0	<5.4	<0.00	5.0	NIOSH 7500	02/21/2018
Total (Quartz and Crystalline)	<10	<11		10	NIOSH 7500	02/21/2018
RL = Reporting Limit						

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Client ID:	VJ1701/2018			Matrix:	Air	
BY Lab ID:	117146			Sample Media:	PVC 3-stage Sum Tared	
Date Sampled:	01/17/2018			Air Volume (L):	107.88	
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	6.7	6.2	2.3	5.0	NIOSH 7500	02/21/2018
Crystalline	<5.0	<4.6	<1.50	5.0	NIOSH 7500	02/21/2018
Total (Quartz and Crystalline)	<10	<9.3		10	NIOSH 7500	02/21/2018
RL = Reporting Limit						



PH Labs info #: CHS3677
Report Date: 03/23/2024

SHAH Industrial Hygiene Solutions
Client Project #: 3000A04

ANALYTICAL RESULTS

Client ID: W370017M 10				Matrix: Air		
PH Labs ID: 191710				Sample Media: PVC 3 piece Sam Tared		
Date Sampled: 03/21/2024				Air Volume (L): 898.17		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<0.0	<0.0	<0.0	30	NIOSH 7500	03/21/2024
Crystalline	<0.0	<0.0	<0.0	3.0	NIOSH 7500	03/21/2024
Total (Quartz and Crystalline)	<0.0	<0.0	0.0	33	NIOSH 7500	03/21/2024

RL = Reporting Limit

Client ID: W370017M 10				Matrix: Air		
PH Labs ID: 191710				Sample Media: PVC 3 piece Sam Tared		
Date Sampled: 03/21/2024				Air Volume (L): 903.24		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<0.0	<0.0	<0.0	3.0	NIOSH 7500	03/21/2024
Crystalline	<0.0	<0.0	<0.0	3.0	NIOSH 7500	03/21/2024
Total (Quartz and Crystalline)	<0.0	<0.0	0.0	6.0	NIOSH 7500	03/21/2024

RL = Reporting Limit

Client ID: W370017M 10				Matrix: Air		
PH Labs ID: 191710				Sample Media: PVC 3 piece Sam Tared		
Date Sampled: 03/21/2024				Air Volume (L): 899.05		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<0.0	<0.0	<0.0	3.0	NIOSH 7500	03/21/2024
Crystalline	<0.0	<0.0	<0.0	3.0	NIOSH 7500	03/21/2024
Total (Quartz and Crystalline)	<0.0	<0.0	0.0	6.0	NIOSH 7500	03/21/2024

RL = Reporting Limit

Client ID: W370017M 10				Matrix: Air		
PH Labs ID: 191710				Sample Media: PVC 3 piece Sam Tared		
Date Sampled: 03/21/2024				Air Volume (L): 885.54		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	0.1	0.0	1.0	3.0	NIOSH 7500	03/21/2024
Crystalline	<0.0	<0.0	<0.0	3.0	NIOSH 7500	03/21/2024
Total (Quartz and Crystalline)	<0.0	<0.0	0.0	6.0	NIOSH 7500	03/21/2024

RL = Reporting Limit



SV Labs Job #: C453677
Report Date: 03/23/2024

SHAH Industrial Hygiene Solutions
Client Project #: 2524A024

ANALYTICAL RESULTS

Client ID: W380274 14 SV Lab ID: 917754 Date Sampled: 01/18/2024				Matrix: Air Sample Media: PVC 3 piece Sam Total Air Volume (L): 888.93		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	6.0	6.7	1.4	5.0	NIOSH 7500	03/23/2024
Crystalline	<0.0	<0.0	<0.0	5.0	NIOSH 7500	03/23/2024
Total (Quartz and Crystalline)	<0.0	<0.0	0.0	NIOSH 7500	NIOSH 7500	03/23/2024

RL = Reporting Limit

Client ID: W380274 14 SV Lab ID: 917754 Date Sampled: 01/18/2024				Matrix: Air Sample Media: PVC 3 piece Sam Total Air Volume (L): 888.93		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	14	17	2.2	5.0	NIOSH 7500	03/23/2024
Crystalline	23	28	3.8	5.0	NIOSH 7500	03/23/2024
Total (Quartz and Crystalline)	37	45	5.0	NIOSH 7500	NIOSH 7500	03/23/2024

RL = Reporting Limit

Client ID: W380274 14 SV Lab ID: 917755 Date Sampled: 01/18/2024				Matrix: Air Sample Media: PVC 3 piece Sam Total Air Volume (L): 880.53		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	18	20	1.8	5.0	NIOSH 7500	03/23/2024
Crystalline	14	16	1.4	5.0	NIOSH 7500	03/23/2024
Total (Quartz and Crystalline)	32	37	3.3	NIOSH 7500	NIOSH 7500	03/23/2024

RL = Reporting Limit



BY Labs Job #: C453677
Report Date: 03/25/2024

SHAH Industrial Hygiene Solutions
Client Project #: 800AA04

ANALYTICAL RESULTS

Client ID: 1538007M 17		Matrix: Air				
BY Labs ID: 153717		Sample Media: PVC 3 piece Sam Tared				
Date Sampled: 01/18/2024		Air Volume (L): 1025.31				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	34	33	1.7	10	NIOSH 7500	03/21/2024
Crystalline	<20	<19	<1.9	10	NIOSH 7500	03/21/2024
Total (Quartz and Crystalline)	<40	<38	40	10	NIOSH 7500	03/21/2024

RL = Reporting Limit

Client ID: 15380000 28		Matrix: Air			
BY Labs ID: 153758		Sample Media: PVC 3 piece Sam Tared			
Date Sampled: 03/18/2024		Air Volume (L): 899.78			
ANALYTE	Mass µg	Concentration µg/m ³	RL µg	Test Method	Date Analyzed
Carbon Black	2800	32	50	NIOSH 5090	03/28/2024

RL = Reporting Limit

Client ID: 1538007M 18		Matrix: Air				
BY Labs ID: 153719		Sample Media: PVC 3 piece Sam Tared				
Date Sampled: 01/18/2024		Air Volume (L): 940.91				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	19	21	2.7	5.0	NIOSH 7500	03/21/2024
Crystalline	<5.0	<5.4	<0.7	5.0	NIOSH 7500	03/21/2024
Total (Quartz and Crystalline)	19	21	10	NIOSH 7500	03/21/2024	

RL = Reporting Limit

Client ID: 1538007M 20		Matrix: Air				
BY Labs ID: 153760		Sample Media: PVC 3 piece Sam Tared				
Date Sampled: 01/18/2024		Air Volume (L): 705.83				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.4	<0.8	5.0	NIOSH 7500	03/21/2024
Crystalline	<5.0	<5.4	<0.8	5.0	NIOSH 7500	03/21/2024
Total (Quartz and Crystalline)	<10	<11	10	NIOSH 7500	03/21/2024	

RL = Reporting Limit



BY Labs Id# CAS3037
Report Date: 03/25/2024

SHAH Industrial Hygiene Solutions
Client Project #: 2024A024

ANALYTICAL RESULTS

Client ID: VJ1801/24 17				Matrix: Air		
BY Labs ID: 91757				Sample Media: PVC 8 piece Sam Target		
Date Sampled: 01/18/2024				Air Volume (L): 1225.31		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	24	21	1.7	20	NIOSH 7500	03/25/2024
Crystalline	<20	<18	<1.5	20	NIOSH 7500	03/25/2024
Total (Quartz and Crystalline)	<40	<36		40	NIOSH 7500	03/25/2024

RL = Reporting Limit

Client ID: VJ1801/24 20				Matrix: Air		
BY Labs ID: 91753				Sample Media: PVC 8 piece Sam Target		
Date Sampled: 01/18/2024				Air Volume (L): 873.38		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.7	<1.4	5.0	NIOSH 7500	03/25/2024
Crystalline	<5.0	<5.7	<1.4	5.0	NIOSH 7500	03/25/2024
Total (Quartz and Crystalline)	<10	<11		10	NIOSH 7500	03/25/2024

RL = Reporting Limit

Client ID: VJ1801/24 24				Matrix: Air		
BY Labs ID: 91754				Sample Media: PVC 8 piece Sam Target		
Date Sampled: 01/18/2024				Air Volume (L): 626.19		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.4	<1.3	5.0	NIOSH 7500	03/25/2024
Crystalline	<5.0	<5.4	<1.3	5.0	NIOSH 7500	03/25/2024
Total (Quartz and Crystalline)	<10	<11		10	NIOSH 7500	03/25/2024

RL = Reporting Limit



NIOSH Lab ID #: CAS0077
Report Date: 03/25/2024

SHAH Industrial Hygiene Solutions
Client Project #: 2024A024

ANALYTICAL RESULTS

Client ID: VJ1903/M 26				Matrix: Air		
NI Lab ID: 91766				Sample Media: PVC 3-piece Sam Filter		
Date Sampled: 01/25/2024				Air Volume (L): 846.78		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<0.0	<0.0	<0.0	0.0	NIOSH 7500	03/25/2024
Crinoidalite	<0.0	<0.0	<0.0	0.0	NIOSH 7500	03/25/2024
Total (Quartz and Crinoidalite)	<0.0	<0.0	0.0	0.0	NIOSH 7500	03/25/2024
RL = Reporting Limit						

Client ID: VJ1903/M 26				Matrix: Air		
NI Lab ID: 91766				Sample Media: PVC 3-piece Sam Filter		
Date Sampled: 01/25/2024				Air Volume (L): 847.74		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<0.0	<0.0	<0.0	0.0	NIOSH 7500	03/25/2024
Crinoidalite	<0.0	<0.0	<0.0	0.0	NIOSH 7500	03/25/2024
Total (Quartz and Crinoidalite)	<0.0	<0.0	0.0	0.0	NIOSH 7500	03/25/2024
RL = Reporting Limit						

Client ID: VJ1903/M 27				Matrix: Air		
NI Lab ID: 91767				Sample Media: PVC 3-piece Sam Filter		
Date Sampled: 01/25/2024				Air Volume (L): 1356.26		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	13	11	2.0	0.0	NIOSH 7500	03/25/2024
Crinoidalite	<0.0	<0.0	<0.0	0.0	NIOSH 7500	03/25/2024
Total (Quartz and Crinoidalite)	13	11	2.0	0.0	NIOSH 7500	03/25/2024
RL = Reporting Limit						

Client ID: W2902/N 30		Matrix: Air				
SV Lab# ID: 91772		Sample Media: PVC 3-piece Sam Tared				
Date Sampled: 01/15/2014		Air Volume (L): 936.43				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	5.9	6.3	5.5	5.0	NIOSH 7500	01/21/2014
Crinobalite	<5.0	<5.4	<1.5	5.0	NIOSH 7500	01/21/2014
Total (Quartz and Crinobalite)	<10	<12		10	NIOSH 7500	01/21/2014
RL = Reporting Limit						

Client ID: W2902/N 30		Matrix: Air				
SV Lab# ID: 91772		Sample Media: PVC 3-piece Sam Tared				
Date Sampled: 01/15/2014		Air Volume (L): 949.48				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.3	<1.0	5.0	NIOSH 7500	01/21/2014
Crinobalite	<5.0	<5.3	<1.0	5.0	NIOSH 7500	01/21/2014
Total (Quartz and Crinobalite)	<10	<11		10	NIOSH 7500	01/21/2014
RL = Reporting Limit						

Client ID: W2902/N 30		Matrix: Air				
SV Lab# ID: 91772		Sample Media: PVC 3-piece Sam Tared				
Date Sampled: 01/15/2014		Air Volume (L): 927.42				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.4	<5.0	5.0	NIOSH 7500	01/21/2014
Crinobalite	<5.0	<5.4	<5.0	5.0	NIOSH 7500	01/21/2014
Total (Quartz and Crinobalite)	<10	<12		10	NIOSH 7500	01/21/2014
RL = Reporting Limit						



SV Lab# ID: C40307
Report Date: 01/29/2014

SHAH Industrial Hygiene Solutions
Client Project #: 3006A04

ANALYTICAL RESULTS

Client ID: W2902/N 30		Matrix: Air				
SV Lab# ID: 91772		Sample Media: PVC 3-piece Sam Tared				
Date Sampled: 01/15/2014		Air Volume (L): 898.14				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.6	<5.0	5.0	NIOSH 7500	01/21/2014
Crinobalite	<5.0	<5.6	<5.0	5.0	NIOSH 7500	01/21/2014
Total (Quartz and Crinobalite)	<10	<12		10	NIOSH 7500	01/21/2014
RL = Reporting Limit						

Client ID: VJ20017M-36				Matrix: Air		
SV Lab ID: 717776				Sample Media: PVC Impinger Sum Total		
Date Sampled: 01/21/2019				Air Volume (L): 1041.89		
ANALYTE	Mass (µg)	Concentration (µg/m ³)	%	RL (µg)	Test Method	Date Analyzed
Quartz	<0.0	<0.0	<0.0	0.0	NIOSH 7500	03/21/2019
Crinoidalite	<0.0	<0.0	<0.0	0.0	NIOSH 7500	03/21/2019
Total (Quartz and Crinoidalite)	<0.0	<0.0		0.0	NIOSH 7500	03/21/2019
RL = Reporting Limit						

Report created from internal file: 2019-04-24-10-11-44

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Client ID: VJ20017M-36				Matrix: Air		
SV Lab ID: 717776				Sample Media: PVC Impinger Sum Total		
Date Sampled: 01/21/2019				Air Volume (L): 957.11		
ANALYTE	Mass (µg)	Concentration (µg/m ³)	%	RL (µg)	Test Method	Date Analyzed
Quartz	<0.0	<0.0	<0.0	0.0	NIOSH 7500	03/21/2019
Crinoidalite	<0.0	<0.2	<0.0	0.0	NIOSH 7500	03/21/2019
Total (Quartz and Crinoidalite)	<0.0	<0.2		0.0	NIOSH 7500	03/21/2019
RL = Reporting Limit						

Report created from internal file: 2019-04-24-10-11-44

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Client ID: VJ20017M-40				Matrix: Air		
SV Lab ID: 717776				Sample Media: PVC Impinger Sum Total		
Date Sampled: 01/21/2019				Air Volume (L): 956.15		
ANALYTE	Mass (µg)	Concentration (µg/m ³)	%	RL (µg)	Test Method	Date Analyzed
Quartz	<0.0	<0.0	<0.0	0.0	NIOSH 7500	03/21/2019
Crinoidalite	<0.0	<0.2	<0.0	0.0	NIOSH 7500	03/21/2019
Total (Quartz and Crinoidalite)	<0.0	<0.2		0.0	NIOSH 7500	03/21/2019
RL = Reporting Limit						

Report created from internal file: 2019-04-24-10-11-44

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Client ID: 102300176-08				Matrix: Air		
BY Lab ID: 147780				Sample Media: PVC 3 piece Sam Target		
Date Sampled: 01/21/2014				Air Volume (L): 973.00		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	13	13	0.8	5.0	NIOSH 7500	01/21/2014
Crystalline	<0.8	<0.8	<0.8	5.0	NIOSH 7500	01/21/2014
Total (Quartz and Crystalline)	13	13	0.8	10	NIOSH 7500	01/21/2014

RL = Reporting Limit

Client ID: 102300176-08				Matrix: Air		
BY Lab ID: 147780				Sample Media: PVC 3 piece Sam Target		
Date Sampled: 01/21/2014				Air Volume (L): 178.64		
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<0.8	<0.4	<0.8	5.0	NIOSH 7500	01/21/2014
Crystalline	<0.8	<0.4	<0.8	5.0	NIOSH 7500	01/21/2014
Total (Quartz and Crystalline)	<0.8	<0.8	0.8	10	NIOSH 7500	01/21/2014

RL = Reporting Limit

Client ID: V2-002/M-12 SV Lab# (1): 117792 Date Sampled: 01/21/2024				Matrix: Air Sample Media: PVC 3 piece Sam Tared Air Volume (L): 792.73		
ANALYTE	Mass µg	Concentration µg/m ³	RL µg	RL µg	Test Method	Date Analyzed
Quartz	8.1	8.1	1.1	1.0	NIOSH 7500	01/21/2024
Crystalline	<5.0	<5.3	<5.3	1.0	NIOSH 7500	01/21/2024
Total (Quartz and Crystalline)	<10	<10	10	10	NIOSH 7500	01/21/2024

RL = Reporting Limit

Client ID: V2-002/M-10 SV Lab# (1): 117791 Date Sampled: 01/21/2024				Matrix: Air Sample Media: PVC 3 piece Sam Tared Air Volume (L): 920.68		
ANALYTE	Mass µg	Concentration µg/m ³	RL µg	RL µg	Test Method	Date Analyzed
Quartz	12	14	0.8	1.0	NIOSH 7500	01/21/2024
Crystalline	<5.0	<5.4	<5.4	1.0	NIOSH 7500	01/21/2024
Total (Quartz and Crystalline)	12	14	10	10	NIOSH 7500	01/21/2024

RL = Reporting Limit

Client ID: V2-002/M-14 SV Lab# (1): 117794 Date Sampled: 01/21/2024				Matrix: Air Sample Media: PVC 3 piece Sam Tared Air Volume (L): 825.6		
ANALYTE	Mass µg	Concentration µg/m ³	RL µg	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.5	<5.7	1.0	NIOSH 7500	01/21/2024
Crystalline	<5.0	<5.5	<5.7	1.0	NIOSH 7500	01/21/2024
Total (Quartz and Crystalline)	<10	<11	10	10	NIOSH 7500	01/21/2024

RL = Reporting Limit



SV Lab# Job #: C403077
Report Date: 03/29/2024

SHAH Industrial Hygiene Solutions
Client Project #: 0004624

ANALYTICAL RESULTS

Client ID: V2-002/M-05 SV Lab# (1): 117805 Date Sampled: 01/24/2024				Matrix: Air Sample Media: PVC 3 piece Sam Tared Air Volume (L): 878.14		
ANALYTE	Mass µg	Concentration µg/m ³	RL µg	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.3	<5.40	1.0	NIOSH 7500	01/21/2024
Crystalline	<5.0	<5.3	<5.40	1.0	NIOSH 7500	01/21/2024
Total (Quartz and Crystalline)	<10	<10	10	10	NIOSH 7500	01/21/2024

RL = Reporting Limit



SV Labs, Lab # : C453677
Report Date: 03/25/2024

SHAH Industrial Hygiene Solutions
Client Project #: 800AA04

ANALYTICAL RESULTS

Client ID: V216027M 06		Matrix: Air				
SV Lab ID: 118826		Sample Media: PVC 3 piece Sam Tared				
Date Sampled: 01/25/2024		Air Volume (L): 888.85				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.5	<0.8	5.0	NIOSH 7500	03/25/2024
Crinobaline	<5.0	<5.5	<0.8	5.0	NIOSH 7500	03/25/2024
Total (Quartz and Crinobaline)	<10	<11	0.8	10	NIOSH 7500	03/25/2024
RL = Reporting Limit						

Client ID: V216027M 06		Matrix: Air				
SV Lab ID: 118826		Sample Media: PVC 3 piece Sam Tared				
Date Sampled: 01/25/2024		Air Volume (L): 896.42				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.4	<0.8	5.0	NIOSH 7500	03/25/2024
Crinobaline	<5.0	<5.4	<0.8	5.0	NIOSH 7500	03/25/2024
Total (Quartz and Crinobaline)	<10	<11	0.8	10	NIOSH 7500	03/25/2024
RL = Reporting Limit						

Client ID: V216027M 06		Matrix: Air				
SV Lab ID: 118826		Sample Media: PVC 3 piece Sam Tared				
Date Sampled: 01/25/2024		Air Volume (L): 941.25				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	5.4	1.1	5.0	NIOSH 7500	03/25/2024
Crinobaline	<5.0	<5.3	<0.8	5.0	NIOSH 7500	03/25/2024
Total (Quartz and Crinobaline)	<10	<11	0.8	10	NIOSH 7500	03/25/2024
RL = Reporting Limit						

Client ID: V216027M 06		Matrix: Air				
SV Lab ID: 118826		Sample Media: PVC 3 piece Sam Tared				
Date Sampled: 01/25/2024		Air Volume (L): 932.48				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.4	<0.8	5.0	NIOSH 7500	03/25/2024
Crinobaline	<5.0	<5.4	<0.8	5.0	NIOSH 7500	03/25/2024
Total (Quartz and Crinobaline)	<10	<11	0.8	10	NIOSH 7500	03/25/2024
RL = Reporting Limit						

Client ID:	V/2002/12	Matrix:	Air			
SV Labs ID:	117832	Sample Media:	PVC 3-piece Sum Tared			
Date Sampled:	01/26/2024	Air Volume (L):	703.33			
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<0.0	<0.4	<1.0	1.0	NIOSH 7500	03/21/2024
Crinoidalite	<0.0	<0.4	<1.0	1.0	NIOSH 7500	03/21/2024
Total (Quartz and Crinoidalite)	<10	<12		20	NIOSH 7500	03/21/2024
RL = Reporting Limit						

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SV Labs Job #: C455677
Report Date: 03/29/2024

SHAH Industrial Hygiene Solutions
Client Project #: 2002A024

ANALYTICAL RESULTS

Client ID:	V/2002/12	Matrix:	Air			
SV Labs ID:	117832	Sample Media:	PVC 3-piece Sum Tared			
Date Sampled:	01/26/2024	Air Volume (L):	828.12			
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	17	18	1.8	1.0	NIOSH 7500	03/21/2024
Crinoidalite	<0.0	<0.4	<1.0	1.0	NIOSH 7500	03/21/2024
Total (Quartz and Crinoidalite)	17	18	1.8	2.0	NIOSH 7500	03/21/2024
RL = Reporting Limit						

Report generated using SVL 2024/04/01 - Rev. 04/2023

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SV Labs Job #: C455677
Report Date: 03/29/2024

SHAH Industrial Hygiene Solutions
Client Project #: 2002A024

ANALYTICAL RESULTS

Client ID:	V/2002/12A	Matrix:	Air			
SV Labs ID:	117861	Sample Media:	PVC 3-piece Sum Tared			
Date Sampled:	01/25/2024	Air Volume (L):	833.28			
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<0.0	<0.4	<0.6	1.0	NIOSH 7500	03/21/2024
Crinoidalite	<0.0	<0.4	<0.6	1.0	NIOSH 7500	03/21/2024
Total (Quartz and Crinoidalite)	<10	<12		20	NIOSH 7500	03/21/2024
RL = Reporting Limit						

Client ID: W/20075/129				Matrix:	Air	
BY Lab ID: 11866				Sample Media:	PVC 3 piece Sam Total	
Date Sampled: 01/21/2018				Air Volume (L):	918.28	
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<5.0	<5.5	<0.3	3.0	NIOSH 7500	01/21/2018
Crinoballite	<5.0	<5.5	<0.3	3.0	NIOSH 7500	01/21/2018
Total (Quartz and Crinoballite)	<10	<11		10	NIOSH 7500	01/21/2018
RL = Reporting Limit						

Client ID: W/20075/130				Matrix:	Air	
BY Lab ID: 11870				Sample Media:	PVC 3 piece Sam Total	
Date Sampled: 01/21/2018				Air Volume (L):	954.95	
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	8.0	8.3	1.3	3.0	NIOSH 7500	01/21/2018
Crinoballite	<5.0	<5.2	<0.3	3.0	NIOSH 7500	01/21/2018
Total (Quartz and Crinoballite)	<10	<10		10	NIOSH 7500	01/21/2018
RL = Reporting Limit						

Client ID: W/20075/131				Matrix:	Air	
BY Lab ID: 11871				Sample Media:	PVC 3 piece Sam Total	
Date Sampled: 01/21/2018				Air Volume (L):	917.3	
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	6.0	6.7	0.8	3.0	NIOSH 7500	01/21/2018
Crinoballite	<5.0	<5.7	<0.8	3.0	NIOSH 7500	01/21/2018
Total (Quartz and Crinoballite)	<10	<10		10	NIOSH 7500	01/21/2018
RL = Reporting Limit						



BY Labs Job #: C453677
Report Date: 03/25/2024

SHAH Industrial Hygiene Solutions
Client Project #: 800AA04

ANALYTICAL RESULTS

Client ID: W200276 184		Matrix: Air				
BY Labs ID: 118871		Sample Media: PVC Impinger Sam Tared				
Date Sampled: 03/20/2024		Air Volume (L): 860.0				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<0.0	<0.1	<0.1	50	NIOSH 7500	03/21/2024
Cristobalite	<0.0	<0.3	<0.3	1.0	NIOSH 7500	03/21/2024
Total (Quartz and Cristobalite)	<0.0	<0.7		55	NIOSH 7500	03/21/2024

RL = Reporting Limit

Client ID: W200276 184		Matrix: Air				
BY Labs ID: 118871		Sample Media: PVC Impinger Sam Tared				
Date Sampled: 03/20/2024		Air Volume (L): 846.94				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	<0.0	<0.3	<0.3	1.0	NIOSH 7500	03/21/2024
Cristobalite	<0.0	<0.3	<0.3	1.0	NIOSH 7500	03/21/2024
Total (Quartz and Cristobalite)	<0.0	<0.4		1.0	NIOSH 7500	03/21/2024

RL = Reporting Limit

Client ID: W200276 184		Matrix: Air				
BY Labs ID: 118871		Sample Media: PVC Impinger Sam Tared				
Date Sampled: 03/20/2024		Air Volume (L): 840				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	9.8	10	1.0	1.0	NIOSH 7500	03/21/2024
Cristobalite	<0.0	<0.3	<0.3	1.0	NIOSH 7500	03/21/2024
Total (Quartz and Cristobalite)	<10	<10		0.1	NIOSH 7500	03/21/2024

RL = Reporting Limit

Client ID: W200276 184		Matrix: Air				
BY Labs ID: 118871		Sample Media: PVC Impinger Sam Tared				
Date Sampled: 03/20/2024		Air Volume (L): 1289.04				
ANALYTE	Mass µg	Concentration µg/m ³	%	RL µg	Test Method	Date Analyzed
Quartz	20	18	2.1	1.0	NIOSH 7500	03/21/2024
Cristobalite	<0.0	<0.5	<0.1	1.0	NIOSH 7500	03/21/2024
Total (Quartz and Cristobalite)	20	18		0.1	NIOSH 7500	03/21/2024

RL = Reporting Limit

Annexure XV
Pre and Post monsoon ground water quality analysis



Pune : 31A, Shreeji Complex, Nehru Nagar, Pimpri, Pune 411 018
 Vadodra : Plot No.1, Shah Ind. Park-1, Vadodra-Savli, Landapuro, 391 775 Dist. Vadodra
 Lab : 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune 411019
 Customer Care No:- +91225247365
 Web : www.shreeji-aqua.com • Email: info@shreeji-aqua.com

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India

TEST REPORT

20/05/2024

Sample / Report No.	SL/24-25/05/MFW/1850				
Name of Customer	M/s. YEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM – GOA,				
Order / Reference	As per TRF Dated 15/05/2024				
Sample declaration as provided by customer :					
Nature of Sample	Naveim - Sanjay Naik Well Water				
Batch No.	NA				
Sample Drawn by	SATPL Representative on 15/05/2024	Sample Received On	15/05/2024		
Start of Analysis	15/05/2024	End of Analysis	20/05/2024		
Sample Container	Plastic Can	Sample Quantity	2 lit		
Sampling Procedure	IS 3025 (Part 1) & IS1622				
Limits	As Per IS 10500:2012 Standards				
Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source		
Chemical Testing					
Colour	<1.0	5.0 Max.	15.0 Max.	Hazen	IS 3025 (Part 4):1983 R 2021
Turbidity	0.21	1.0 Max.	5.0 Max.	NTU	IS 3025 (Part 10):1984 R 2023
pH	7.04	6.5 – 8.5	No Relaxation	-	IS 3025 (Part 11): 2022
Total Dissolved Solids	105.0	500.0 Max.	2000.0 Max.	mg/l	IS 3025 (Part 16): 2023
Chlorides	19.99	250.0 Max.	1000.0 Max.	mg/l	IS 3025 (Part 32):1988 R 2019
Manganese	<0.01	0.10 Max.	0.30 Max.	mg/l	IS 3025 (Part 2): 2004 R2019
Nitrate	1.18	45.0 Max.	No Relaxation	mg/l	IS 3025 (Part 34):1988 R 2019
Sulphate	3.95	200.0 Max.	400.0 Max.	mg/l	IS 3025 (Part 24/Ser 1):2022
Total Hardness as CaCO ₃	44	200.0 Max.	600.0 Max.	mg/l	IS 3025 (Part 21):2009 R2019
Calcium Hardness	30.0	Not Specified		mg/l	IS 3025 (Part 40):1991 R 2019
Magnesium Hardness	14.0	Not Specified		mg/l	IS 3025: Part 46: R2023

REMARK: Reference to above testing parameters, given Well Water sample is within the prescribed limit.

Disclaimer: Information supplied by customers represented in italic font

Verified By,

Sr. Analyst
Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
(Authorized Signatory)



|| Shreeji ||

SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

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ISO 45001 : 2018

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Vadodra : Plot No.1, Shah Ind. Park-1, Vadodra-Scott, Lamdajara, 391 775 Dist. Vadodra
Lab : 164, Shreeji Terrace Apt. Plot No. 53, Furia Nagar, Chikhali, Pune-411019
Customer Care No.: +91 9225247365
Web : www.shreeji-aqua.com • Email: info@shreeji-aqua.com

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TEST REPORT

20/05/2024

Sample / Report No.	SL/24-25/05/MFW/1350				
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMDNA,P.O.MARCELA,BICHOLIM - GOA.				
Order / Reference	As per TRF Dated 15/05/2024				
Sample declaration as provided by customer :					
Nature of Sample	Navelim - Sanjay Nalk Well Water				
Batch No.	NA				
Sample Drawn by	SATPL Representative on 15/05/2024	Sample Received On	16/05/2024		
Start of Analysis	16/05/2024	End of Analysis	20/05/2024		
Sample Container	Plastic Can	Sample Quantity	2 lit.		
Sampling Procedure	IS 3025 (Part 1) & IS1622				
Limits	As Per IS 10500:2012 Standards				
Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source		
Chemical Testing					
Dissolved Iron	<0.1	1.0 Max.	No Relaxation	mg/l	IS 3025 (Part 2): 2004 & 2019
Electrical Conductivity	159	Not Specified		µs/cm	APHA, 24 th Edition 2023/2510-B
Chemical Oxygen Demand (COD)	<4.00	Not Specified		mg/l	APHA, 24 th Edition 2023/ 5220-C
Bio-Chemical Oxygen Demand (BOD)27°C for 3 Days	<1.00	Not Specified		mg/l	IS 3025 (Part 44): 2023
Total Suspended Solids (TSS)	6.0	Not Specified		mg/l	APHA, 24th Edition 2023/ 2540-D
Oil & Grease	<2.0	Not Specified		mg/l	IS 3025 (Part 39): 2021
Phosphate	<0.001	Not Specified		mg/l	APHA, 24 th Edition 2023/4500-P-D

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Verified By,
Sapali
Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.

SJM
Managing Director
(Authorized Signatory)

-----End Of Test Report-----

The results relate to sample tested.



|| Shreeji ||

SHREEJI AQUA TREATMENT PVT. LTD.

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ISO 45001:2018

Place : 21A, Shreeji Complex, Nehru Nagar, Pimpri, Pune-411 018
Vadodara : Plot No.1, Shah Int. Park-1, Vadodara-Savli, Landapur, 391 775 Dist. Vadodara
Lab : 164, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune-411019
Customer Care No.: +919225247365
Web : www.shreeji-aqua.com • Email: info@shreeji-aqua.com

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TEST REPORT

20/05/2024

Sample / Report No.	SL/24-25/05/MFW/135N				
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM - GOA.				
Order / Reference	As per TRF Dated 15/05/2024				
Sample declaration as provided by customer :					
Nature of Sample	Amona-Savdesh Naik Well Water				
Batch No.	NA				
Sample Drawn by	SATPL Representative on 15/05/2024	Sample Received On	15/05/2024		
Start of Analysis	16/05/2024	End of Analysis	20/05/2024		
Sample Container	Plastic Can	Sample Quantity	2 lit		
Sampling Procedure	IS 3025 (Part 1) & IS1622				
Limits	As Per IS 10500:2012 Standards				
Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source		
Chemical Testing					
Colour	<1.0	5.0 Max.	15.0 Max.	Hazen	IS 3025 (Part 4):1983 R 2021
Turbidity	0.20	1.0 Max.	5.0 Max.	NTU	IS 3025 (Part 10):1984 R 2023
pH	7.10	6.5 - 8.5	No Relaxation	-	IS 3025 (Part 11): 2022
Total Dissolved Solids	98.0	500.0 Max.	2000.0 Max.	mg/L	IS 3025 (Part 16): 2023
Chlorides	15.00	250.0 Max.	1000.0 Max.	mg/L	IS 3025 (Part 32):1988 R 2019
Manganese	<0.01	0.10 Max.	0.30 Max.	mg/L	IS 3025 (Part 2): 2004 R2019
Nitrate	1.04	45.0 Max.	No Relaxation	mg/L	IS 3025 (Part 34):1988 R 2019
Sulphate	3.71	200.0 Max.	400.0 Max.	mg/L	IS 3025 (Part 24/Sec 1):2022
Total Hardness as CaCO ₃	48.0	200.0 Max.	600.0 Max.	mg/L	IS 3025 (Part 21):2009 R2019
Calcium Hardness	26.0	Not Specified		mg/L	IS 3025 (Part 40):1991 R 2019
Magnesium Hardness	22.0	Not Specified		mg/L	IS 3025: Part 46: R2023

REMARK: Reference to above testing parameters, given Well Water sample is within the prescribed limit.

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

Verified By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.

Managing Director
(Authorized Signatory)



|| Shreeji ||

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ISO 43001 : 2018

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Vadodara : Plot No.1, Shri Ind. Park-1, Vadodara-Savli, Landapur, 391 775 Dist. Vadodara
Lab : 18A, Shreeji Terrace Apt. Plot No.53, Purna Nagar, Chikhali, Pune: 411019
Customer Care No:- +919225247365
Web : www.shreeji-aqua.com • Email: info@shreeji-aqua.com

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TEST REPORT

20/05/2024

Sample / Report No.	SL/24-25/05/MFW/135N				
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer	SURVEY NO.30(PART)-41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM – GOA.				
Order / Reference	As per TRF Dated: 15/05/2024				
Sample declaration as provided by customer :					
Nature of Sample	Amawa-Sandesh Milk Well Water				
Batch No.	NA				
Sample Drawn by	SATPL Representative on 15/05/2024	Sample Received On	16/05/2024		
Start of Analysis	16/05/2024	End of Analysis	20/05/2024		
Sample Container	Plastic Can	Sample Quantity	2 lit		
Sampling Procedure	IS 3025 (Part 1) & IS1522				
Limits	As Per IS 10500:2012 Standards				
Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source		
Chemical Testing					
Dissolved Iron	<0.1	1.0 Max.	No Relaxation	mg/l	IS 3025 (Part 2): 2004 R2019
Electrical Conductivity	151	Not Specified		µs/cm	APHA, 24 th Edition 2023/2510-B
Chemical Oxygen Demand (COD)	<4.00	Not Specified		mg/l	APHA, 24 th Edition 2023/ 5220-C
Bio Chemical Oxygen Demand (BOD)27°C for 3 Days	<1.00	Not Specified		mg/l	IS 3025 (Part 44): 2023
Total Suspended Solids (TSS)	8	Not Specified		mg/l	APHA, 24 th Edition 2023/ 2540-D
Oil & Grease	<2.0	Not Specified		mg/L	IS 3025 (Part 39): 2021
Phosphate	<0.001	Not Specified		mg/L	APHA, 24 th Edition 2023/4500-P-D

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

Verified By,

Sr. Analyst

Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.

SJM

Managing Director
(Authorized Signatory)

-----End Of Test Report-----

The results relate to sample tested.



Pune : 21A, Shreeji Complex, Nehru Nagar, Pimpri, Pune: 411 018
Vadodra : Plot No.1, Shah Ind. Park-1, Vadodra-Saifi, Lamdapura, 391 771 Dist. Vadodra
Lab : 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019
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Web : www.shreeji-aqua.com • **Email**: info@shreeji-aqua.com

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TEST REPORT

20/05/2024

Sample / Report No.	SL/24-25/05/MPW/135M
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOKIM – GOA.
Order / Reference	As per TRF Dated 15/05/2024

Sample declaration as provided by customer :

Nature of Sample	Maino-Digamber Naik Well Water		
Batch No.	NA		
Sample Drawn by	SATPL Representative on 15/05/2024	Sample Received On	16/05/2024
Start of Analysis	16/05/2024	End of Analysis	20/05/2024
Sample Container	Plastic Can	Sample Quantity	2 lt

Sampling Procedure IS 3025 (Part 1) & IS1622

Limits As Per IS 10500:2012 Standards

Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source		

Chemical Testing					
Colour	<1.0	5.0 Max.	15.0 Max.	Hazen	IS 3025 (Part 4):1983 R 2021
Turbidity	0.24	1.0 Max.	5.0 Max.	NTU	IS 3025 (Part 10):1984 R 2023
pH	7.19	6.5 – 8.5	No Relaxation	-	IS 3025 (Part 11): 2022
Total Dissolved Solids	86	500.0 Max.	2000.0 Max.	mg/L	IS 3025 (Part 16): 2023
Chlorides	11.0	250.0 Max.	1000.0 Max.	mg/L	IS 3025 (Part 32):1988 R 2019
Manganese	<0.01	0.10 Max.	0.30 Max.	mg/L	IS 3025 (Part 2): 2004 R2019
Nitrate	0.18	45.0 Max.	No Relaxation	mg/L	IS 3025 (Part 34):1988 R 2019
Sulphate	2.66	200.0 Max.	400.0 Max.	mg/L	IS 3025 (Part 24/Sec 1):2022
Total Hardness as CaCO ₃	34	200.0 Max.	600.0 Max.	mg/L	IS 3025 (Part 21):2009 R2019
Calcium Hardness	20.0	Not Specified		mg/L	IS 3025 (Part 40):1991 R 2019
Magnesium Hardness	10.0	Not Specified		mg/L	IS 3025: Part 46: R2023

REMARK: Reference to above testing parameters, given Well Water sample is within the prescribed limit.

Disclaimer-Information supplied by customers represented in italic font

Verified By
[Signature]
Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.

[Signature]
Managing Director
(Authorized Signatory)



|| Shreeji ||

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 Lab : 184, Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019
 Customer Care No: +919225247365
 Web : www.shreeji-aqua.com • Email: info@shreeji-aqua.com

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TEST REPORT

20/05/2024

Sample / Report No.	SL/24-25/05/MPW/135M				
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMONA, P.O.MARCELA,BICHOLIM – GOA.				
Order / Reference	As per TRF Dated 15/05/2024				
Sample declaration as provided by customer :					
Nature of Sample	Molmo-Digumber Noik Well Water				
Batch No.	NA				
Sample Drawn by	SATPL Representative on 15/05/2024	Sample Received On	16/05/2024		
Start of Analysis	16/05/2024	End of Analysis	20/05/2024		
Sample Container	Plastic Can	Sample Quantity	2 lit		
Sampling Procedure	IS 3025 (Part 1) & IS1623				
Limits	As Per IS 10500:2012 Standards				
Parameters	Results	Specification Range as per IS 10500 / 2012		Unit	Method
		Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source		
Chemical Testing					
Dissolved Iron	<0.1	1.0 Max.	No Relaxation	mg/L	IS 3025 (Part 2): 2004 R2019
Electrical Conductivity	138	Not Specified		µs/cm	APHA, 24 th Edition 2023/2510-B
Chemical Oxygen Demand (COD)	<4.00	Not Specified		mg/L	APHA, 24 th Edition 2023/ 5220-C
Bio Chemical Oxygen Demand (BOD)@27°C for 3 Days	<1.00	Not Specified		mg/L	IS 3025 (Part 44): 2023
Total Suspended Solids (TSS)	4	Not Specified		mg/L	APHA, 24th Edition 2023/ 2540-D
Oil & Grease	<2.0	Not Specified		mg/L	IS 3025 (Part 39): 2021
Phosphate	<0.001	Not Specified		mg/L	APHA, 24 th Edition 2023/4500-P-D


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Verified By,

 Sr. Analyst



For Shreeji Aqua Treatment Pvt. Ltd.


 Managing Director
 (Authorized Signatory)

-----End Of Test Report-----

The results relate to sample tested.



SHREEJI AQUA TREATMENT PVT. LTD.

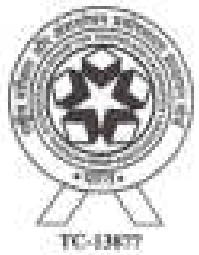
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ULR No.: TC138772400010602F

TEST REPORT

29/10/2024

Sample / Report No.	SL/24-25/10/MFW/105U		
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)		
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM - GOA.		
Order / Reference	As Per TRF dated 24/10/2024		
Sample declaration as provided by customer :			
Nature of Sample	Navelim - Sanjay Naik Well Water		
Batch No.	NA		
Sample Drawn by	SATPL on 24/10/2024	Sample Received On	25/10/2024
Start of Analysis	25/10/2024	End of Analysis	29/10/2024
Sample Container	Plastic con	Sample Quantity	02 lit
Sampling Procedure	IS 3025 (Part 1)		
Limits	As Per IS 10500:2012 Standards		

Chemical Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Colour	<1.0	5.0 Max	Hazen	IS 3025 (Part 4) :1983 R 2021
2	pH Value	7.17	6.5-8.5	---	IS 3025 (Part 11):2022
3	Turbidity	0.23	1.0 Max	NTU	IS 3025 (Part 10) :1984 R 2023
4	Total Dissolved Solids	86.0	500.0 Max	mg/Lit	IS 3025 (Part 16): 2023
5	Sulphate as SO ₄	2.58	200.0 Max	mg/Lit	IS 3025: (Part 24/Sec 1) :R2022
6	Total Hardness as CaCO ₃	38.0	200.0 Max	mg/Lit	IS 3025 (Part 21) : 2009 R 2019
7	Chloride as Cl	15.00	250.0 Max	mg/Lit	IS 3025 (Part 32): 1988 R 2019
8	Manganese as Mn	<0.01	0.1 Max	mg/Lit	IS 3025 (Part 2): 2004 R2019
9	Nitrate as NO ₃	1.06	45.0 Max	mg/Lit	IS 3025 (Part 34)-1988 R 2019
10	Calcium Hardness	22.0	NS	mg/Lit	IS 3025 (Part 40):1991 R 2019
11	Magnesium Hardness	16.0	NS	mg/Lit	IS 3025: Part 46;R2023

Note: NA-Not Applicable, NTU: Nephelometric Turbidity unit, NS- Not Specified.

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

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

Verified By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
Authorized Signatory

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

Page 1 of 2



|| Shreeji ||

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TEST REPORT						29/10/2024
Sample / Report No.		SL/24-25/10/MFW/105U				
Name of Customer		M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer		SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM - GOA.				
Order / Reference		As Per TRF dated 24/10/2024				
Sample declaration as provided by customer :						
Nature of Sample		Navelim - Sanjay Naik Well Water				
Batch No.		NA				
Sample Drawn by		SATPL on 24/10/2024	Sample Received On	25/10/2024		
Start of Analysis		25/10/2024	End of Analysis	29/10/2024		
Sample Container		Plastic can	Sample Quantity	02 lit		
Sampling Procedure		IS 3025 (Part 1)				
Limits		As Per IS 10500:2012 Standards				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
12	Dissolved Iron	<0.1	1.0 Max.	mg/Lit	IS 3025 (Part 2): 2004 R2019	
13	Conductivity	138	NS	µs/cm	APHA, 24 th Edition 2023/2510-B	
14	Chemical Oxygen Demand (COD)	<3.0	NS	mg/Lit	APHA, 24 th Edition 2023/ 5220-C	
15	Bio Chemical Oxygen Demand @ 27°C for 3 Days	<1.0	NS	mg/Lit	IS 3025 (Part 44):2023	
16	Total Suspended Solids (TSS)	8.00	NS	mg/Lit	APHA, 24 th Edition 2023/ 2540-D	
17	Oil & Grease	<2.0	NS	mg/Lit	IS 3025 (Part 39):2021	
18	Phosphates	<0.001	NS	mg/Lit	APHA 24th edition: 4500P- D: 2023	
Note: NA-Not Applicable. NS- Not Specified.						
Disclaimer: Information supplied by customers represented in italic font						
Verified By,				For Shreeji Aqua Treatment Pvt.Ltd.		
						
Sr.Analyst		Quality Manager 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, Morwad, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 184,Shreeji Terrace Apt. Plot No. 33, Purma 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@shreejiacqua.com Web: www.shreejiacqua.com

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



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 ULR No.: TC138772400010601F

TEST REPORT

29/10/2024

Sample / Report No. **SL/24-25/10/MFW/105T**
 Name of Customer **M/s. VEDANTA LIMITED (PIG IRON PLANT)**
 Address of Customer **SURVEY NO.30(PART)41,42/1,27(PART) AMONA, P.O. MARCELA, BICHOLIM - GOA.**
 Order / Reference **As Per TRF dated 24/10/2024**

Sample declaration as provided by customer :

Nature of Sample **Amona-Sandesh Naik Well Water**
 Batch No. **NA**

Sample Drawn by **SATPL on 24/10/2024** Sample Received On **25/10/2024**
 Start of Analysis **25/10/2024** End of Analysis **29/10/2024**
 Sample Container **Plastic can** Sample Quantity **02 lit**

Sampling Procedure **IS 3025 (Part 1)**
 Limits **As Per IS 10500:2012 Standards**

Chemical Testing

Sr.No	Parameters	Results	Limits	Unit	Method
1	Colour	<1.0	5.0 Max	Hazen	IS 3025 (Part 4) :1983 R 2021
2	pH Value	7.01	6.5-8.5	---	IS 3025 (Part 11):2022
3	Turbidity	0.19	1.0 Max	NTU	IS 3025 (Part 10) :1984 R 2023
4	Total Dissolved Solids	80.0	500.0 Max	mg/Lit	IS 3025 (Part 16): 2023
5	Sulphate as SO ₄	2.10	200.0 Max	mg/Lit	IS 3025: (Part 24/Sec 1) R2022
6	Total Hardness as CaCO ₃	42.0	200.0 Max	mg/Lit	IS 3025 (Part 21): 2009 R 2019
7	Chloride as Cl	12.0	250.0 Max	mg/Lit	IS 3025 (Part 32): 1988 R 2019
8	Manganese as Mn	<0.01	0.1 Max	mg/Lit	IS 3025 (Part 2): 2004 R2019
9	Nitrate as NO ₃	1.11	45.0 Max	mg/Lit	IS 3025 (Part 34):1988 R 2019
10	Calcium Hardness	30.0	NS	mg/Lit	IS 3025 (Part 40):1991 R 2019
11	Magnesium Hardness	12.0	NS	mg/Lit	IS 3025: Part 46;R2023

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

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

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

Verified By,

Sr. Analyst



For Shreeji Aqua Treatment Pvt.Ltd.

Quality Manager
 Authorized Signatory

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

Page 1 of 2



|| Shreeji ||

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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						29/10/2024
Sample / Report No.		SL/24-25/10/MFW/105T				
Name of Customer		M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer		SURVEY NO.30(PART)41,42/1,27(PART) AMONA, P.O. MARCELA, BICHOLIM - GOA.				
Order / Reference		As Per TRF dated 24/10/2024				
Sample declaration as provided by customer :						
Nature of Sample		Amono-Sandesh Nalk Well Water				
Batch No.		NA				
Sample Drawn by		SATPL on 24/10/2024	Sample Received On		25/10/2024	
Start of Analysis		25/10/2024	End of Analysis		29/10/2024	
Sample Container		Plastic can	Sample Quantity		02 lit	
Sampling Procedure		IS 3025 (Part 1)				
Limits		As Per IS 10500:2012 Standards				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
12	Dissolved Iron	<0.1	1.0 Max.	mg/Lit	IS 3025 (Part 2): 2004 R2019	
13	Conductivity	151	NS	µs/cm	APHA, 24 th Edition 2023/2510-B	
14	Chemical Oxygen Demand (COD)	<3.0	NS	mg/Lit	APHA, 24 th Edition 2023/ 5220-C	
15	Bio Chemical Oxygen Demand @ 27°C for 3 Days	<1.0	NS	mg/Lit	IS 3025 (Part 44):2023	
16	Total Suspended Solids (TSS)	8.0	NS	mg/Lit	APHA, 24 th Edition 2023/ 2540-D	
17	Oil & Grease	<2.0	NS	mg/Lit	IS 3025 (Part 39):2021	
18	Phosphates	<0.001	NS	mg/Lit	APHA 24th edition: 4500P- D: 2023	
Note: NA-Not Applicable. NS- Not Specified.						
Disclaimer: <i>Information supplied by customers represented in italic font</i>						
Verified By,				For Shreeji Aqua Treatment Pvt.Ltd.		
						
Sr. Analyst				Quality Manager 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, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

Lab: 164,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune 411019

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

Customer Care No.: +919325247365 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 ||

SHREEJI AQUA TREATMENT PVT. LTD.

Innovative Environmental Solutions Under One Roof

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

ULR No.: TC138772400010600F

TEST REPORT						29/10/2024
Sample / Report No.	SL/24-25/10/MFW/1055					
Name of Customer	M/s. VEDANTA LIMITED (PIG IRON PLANT)					
Address of Customer	SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM - GOA.					
Order / Reference	As Per TRF dated 24/10/2024					
Sample declaration as provided by customer :						
Nature of Sample	Main-Digamber Naik Well Water					
Batch No.	NA					
Sample Drawn by	SATPL on 24/10/2024	Sample Received On	25/10/2024			
Start of Analysis	25/10/2024	End of Analysis	29/10/2024			
Sample Container	Plastic can	Sample Quantity	02 lit			
Sampling Procedure	IS 3025 (Part 1)					
Limits	As Per IS 10500:2012 Standards					
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
1	Colour	<1.0	5.0 Max	Hazen	IS 3025 (Part 4) :1983 R 2021	
2	pH Value	7.21	6.5-8.5	---	IS 3025 (Part 11):2022	
3	Turbidity	0.26	1.0 Max	NTU	IS 3025 (Part 10) :1984 R 2023	
4	Total Dissolved Solids	90.0	500.0 Max	mg/Lit	IS 3025 (Part 16): 2023	
5	Sulphate as SO ₄	2.34	200.0 Max	mg/Lit	IS 3025: (Part 24/Sec 1) :R2022	
6	Total Hardness as CaCO ₃	40.0	200.0 Max	mg/Lit	IS 3025 (Part 21): 2009 R 2019	
7	Chloride as Cl	13.0	250.0 Max	mg/Lit	IS 3025 (Part 32): 1988 R 2019	
8	Manganese as Mn	<0.01	0.1 Max	mg/Lit	IS 3025 (Part 2): 2004 R2019	
9	Nitrate as NO ₃	0.11	45.0 Max	mg/Lit	IS 3025 (Part 34):1988 R 2019	
10	Calcium Hardness	26.0	NS	mg/Lit	IS 3025 (Part 40):1991 R 2019	
11	Magnesium Hardness	14.0	NS	mg/Lit	IS 3025: Part 46:R2023	
Note: NA-Not Applicable. NTU: Nephelometric Turbidity unit NS- Not Specified.						
Remark: -The sample analyzed for above parameters is within the prescribed limits						
Disclaimer: 'Information supplied by customers represented in italic font'						
Verified By,		For Shreeji Aqua Treatment Pvt.Ltd.				
						
Sr. Analyst		Quality Manager 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, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra 411018.

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

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

Customer Care No: +919225347365 Email: info@shreejaqua.com Web: www.shreejaqua.com

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TEST REPORT						29/10/2024
Sample / Report No.		SL/24-25/10/MFW/1055				
Name of Customer		M/s. VEDANTA LIMITED (PIG IRON PLANT)				
Address of Customer		SURVEY NO.30(PART)41,42/1,27(PART) AMONA,P.O.MARCELA,BICHOLIM - GOA.				
Order / Reference		As Per TRF dated 24/10/2024				
Sample declaration as provided by customer :						
Nature of Sample		Malna-Digamber Naik Well Water				
Batch No.		NA				
Sample Drawn by		SATPI on 24/10/2024	Sample Received On	25/10/2024		
Start of Analysis		25/10/2024	End of Analysis	29/10/2024		
Sample Container		Plastic con	Sample Quantity	02 lit		
Sampling Procedure		IS 3025 (Part 1)				
Limits		As Per IS 10500:2012 Standards				
Chemical Testing						
Sr.No	Parameters	Results	Limits	Unit	Method	
12	Dissolved Iron	<0.1	1.0 Max.	mg/Lit	IS 3025 (Part 2): 2004 R2019	
13	Conductivity	140	NS	µs/cm	APHA, 24 th Edition 2023/2510-B	
14	Chemical Oxygen Demand (COD)	<3.0	NS	mg/Lit	APHA, 24 th Edition 2023/ 5220-C	
15	Bio Chemical Oxygen Demand @ 27°C for 3 Days	<1.0	NS	mg/Lit	IS 3025 (Part 44):2023	
16	Total Suspended Solids (TSS)	10.0	NS	mg/Lit	APHA, 24 th Edition 2023/ 2540-D	
17	Oil & Grease	<2.0	NS	mg/Lit	IS 3025 (Part 39):2021	
18	Phosphates	<0.001	NS	mg/Lit	APHA 24th edition: 4500P- D: 2023	
Note: NA-Not Applicable. NS- Not Specified.						
Disclaimer: <i>Information supplied by customers represented in italic font</i>						
Verified By,		For Shreeji Aqua Treatment Pvt.Ltd.				
						
Sr. Analyst		Quality Manager 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, Morewad, MIDC, Pimpri-Chinchwad, Maharashtra-411018.

Lab: 1&4,Shreeji Terrace Apt. Plot No. 33, Purna Nagar, Chikhali, Pune-411019

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

Customer Care No.: +919225347385 Email: info@shreeji-aqua.com Web: www.shreeji-aqua.com

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Annexure XVI
Noise monitoring reports



SHREEJI AQUA TREATMENT PVT. LTD.

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EC-13877

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ULR: TC138772400011286F

TEST REPORT

Lab Inward No. : SL/24-25/11/MNM/154M	Date of Sampling : 26-27/11/2024
Client Name : M/s. VEDANTA LIMITED IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM-GOIA	Start of analysis : 26/11/2024
	End of Analysis : 27/11/2024
	Report Date : 30/11/2024
Sample Drawn By : SATPL Representative on 26-27/11/2024	

Order / Reference: As per TRF dated 26/11/2024

AMBIENT NOISE LEVEL MONITORING

Sr. No.	LOCATIONS	NOISE LEVEL READING IN dB (A)	
		DAY TIME	NIGHT TIME
		AVG	AVG
1	Near Amona Gate	61.5	57.6
2	Opp. BSNL Exchange	64.2	54.6
3	Near MCD Gate	62.2	54.1
4	Near Satteri Temple	61.3	53.7
5	Compound Wall Towards Navelim	63.6	52.8
6	Compound Wall Towards Maina	64.8	51.7

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) Lev	
		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
0029663	Sound Level Meter with data logger-1	SATPL/ANUSM-2/15	ME03237	18/03/2024	17/03/2025

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
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



|| Shreeji ||

SHREEJI AQUA TREATMENT PVT. LTD.

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Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India & NABL Valid Up to 31/03/2026.

ULR: TC138772500012963F

TEST REPORT

Lab Inward No. : SL/24-25/02/MNM/246K	Date of Sampling : 11-12/02/2025
Client Name : M/s. VEDANTA LIMITED	Start of analysis : 11/02/2025
IRON AND COKE PLANTS, AMONA AND NAVELIM, BICHOLIM-GOA	End of Analysis : 12/02/2025
Order / Reference: As per TRF dated 11/02/2025	Report Date : 15/02/2025
	Sample Drawn By : SATPL Representative on 11-12/02/2025

AMBIENT NOISE LEVEL MONITORING

Sr. No.	LOCATIONS	NOISE LEVEL READING IN dB (A)	
		DAY TIME	NIGHT TIME
		AVG	AVG
1	Near Amona Gate	66.7	60.1
2	Opp. BSNL Exchange	68.1	57.4
3	Near MCD Gate	63.9	52.7
4	Near Satteri Temple	59.5	50.1
5	Compound Wall Towards Navelim	65.3	54.5
6	Compound Wall Towards Maina	62.2	56.4

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
IA	Industrial Area	75	70
IB	Commercial Area	65	55
IC	Residential Area	55	45
ID	Silence Zone	50	40

EQUIPMENT CALIBRATION DETAILS

Sr. No.	Equipment Name	Equipment ID	Certificate No.	Calibration Detail	
				Calibrated Date	Calibration Due Date
0629682	Sound Level Meter with data logger-1	SATPL/AIR/SUM-2/15	ME05287	16/03/2024	17/03/2025

For Shreeji Aqua Treatment Pvt. Ltd.



SJM
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. 8-24, Hillback, Lal Taji Nagar, Korewadi, MIDC, Pimpri-Chinchwad, Maharashtra-411018.

Lab: 184,Shreeji Terrace Apt. Flat No. 51, Purus Nagar, Chinchwad, Pune-411019

Vadodara: Plot No. 1, Sha's Ind. Park-1, Vadodara-Savli, Laxmapura, 381 775 Dist. Vadodra

Customer Care No.: +9102121247360 Email: info@shreejiacqua.com Web: www.shreejiacqua.com

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Annexure XVII
Solar power installation

100KW Solar power installation



Annexure XVIII
SUP free awareness sessions

Single Use Plastic Awareness Sessions



Single Use Plastic Awareness Sessions



Single Use Plastic Awareness Sessions



Single Use Plastic Awareness Sessions



Single Use Plastic Awareness Sessions

vedanta TRAINING ATTENDANCE

DATE: 2023/08/24 TIME: 11:00 AM TO 12:00 PM

Topic: Single Use Plastic Awareness

Sl. No.	Name	Designation	Present	Absent	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

Key Messages:

- Categories of waste: Solid, hazardous, metal, plastic waste, etc.
- Generation, use & disposal procedure as per content.
- Compliance of the hazardous waste rules and of sets.
- Reporting of mixed waste, plastic waste & de-emulsifier in folder for change & its consequences.

Signature of Trainer

vedanta TRAINING ATTENDANCE

DATE: 2023/08/24 TIME: 11:00 AM TO 12:00 PM

Topic: Single Use Plastic Awareness

Sl. No.	Name	Designation	Present	Absent	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

vedanta TRAINING ATTENDANCE

DATE: 2023/08/24 TIME: 11:00 AM TO 12:00 PM

Topic: Single Use Plastic Awareness

Sl. No.	Name	Designation	Present	Absent	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

Key Messages:

- Reduce, Reuse, Recycle.
- Minimize single use plastic, glassware & bottles.
- Drink, Water & Juice.
- Reduce waste, Recycle.
- 5R waste management.

Signature of Trainer

Single Use Plastic Awareness Sessions

Annexure XIX
E waste manifest



Agsa Stamping

FORM 6 [See Rule 19]

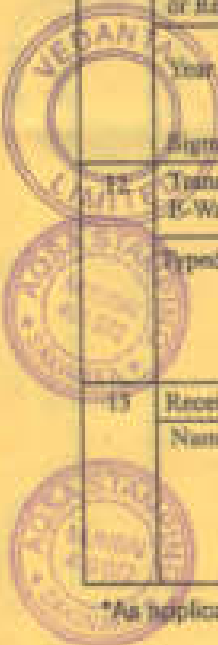
E-WASTE MANIFEST

Plot No. 55, Rangana Ind. Estate, 33/35, Kiroval (Advall), Opp. Ironi Masjid, Old Thane - Pune Road, Dhahisar, Tal. - Parvel, District Raigad - 410208. Mob.: 09820 026815, 09789 204602.

1	Sender's Name and Mailing Address (including Phone No.)	VEDANTA LTD, MET - COKE DIV II AMONA/NAVELIM, TAL. BKHOLIM, GOA - 4103107			
2	Sender's Authorisation No. if Applicable	12/2024-PCB/2267759/R00015589 dtw. 31/12/24			
3	Manifest Document No.	073(2024-25)			
4	Transporter's Name & Address: (including Phone No.)	Agsa Stamping.			
5	Type of Vehicle	General.			
6	Transporter's Registration No.	N/A.			
7	Vehicle Registration No.	GA08V1587			
8	Receiver's Name and Address	AQSA STAMPING, Plot No. 55, Rangana Ind. Estate, 33/35, Kiroval (Advall), Opp. Ironi Masjid, Old Thane - Pune Road, Dhahisar, Tal. - Parvel, District Raigad - 410208. Tel. 09820 026815			
9	Receiver's Authorisation No. if Applicable	MPCB/RO(HQ)/HSMO/Author/20/EW-10 Consent No. BO/MPCB/RO(HQ)/RD/CR/B-2011000619			
10	Description of E-Waste (Item, Weight/Numbers):	All conditioners laptop, monitor, CPU, UPS, PCB, printer, scanner & outputs. Total Qty = 0.750 MT			
11	Name and Stamp of Sender* (Manufacturer or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler):				
	Year	Day	Month	Day	Year
	01	14	20	25	
	Signature:				
12	Transporter's Acknowledgment of Receipt of E-Waste				
	Typed Name & Stamp:	Signature	Month	Day	Year
	For AQSA STAMPING		01	18	2025
13	Receiver* (Collection Centre or Refurbisher or Dismantler or Recycler)				
	Name & Stamp:	Signature	Month	Day	Year
	For AQSA STAMPING		01	14	2025
	Proprietor				

*As applicable

(1) Yellow : Sender (2) Pink : Receiver / Recycler
(3) Orange : Transporter (4) Green : Receiver





AQSA Stamping

FORM 6 [See Rule 19]

E-WASTE MANIFEST

Plot No. 55, Rangara Indl. Estate, 33/35, Krawali (Adivali), Opp. Irani Masjid, Old Thane - Pune Road, Dhahisar, Tal. - Parvel, District Raigad - 410208. Mob.: 09820 028815, 09769 204602.

1	Sender's Name and Mailing Address (including Phone No.)	:	VEDANTA LTD, PIG IRON DIV 2 AMONA/NAVELIM, TAL BICHOLIM, GOA -403107
2	Sender's Authorisation No. If Applicable	:	12/2024-PCB/2197149/R00015270 dttd. 23/03/2024
3	Manifest Document No.	:	031(2024-25)
4	Transporter's Name & Address: (including Phone No.)	:	AQSA Stamping
5	Type of Vehicle	:	General
6	Transporter's Registration No.	:	N.A.
7	Vehicle Registration No.	:	GA08V1547
8	Receiver's Name and Address	:	AQSA STAMPING, Plot No. 55, Rangara Indl. Estate, 33/35, Krawali (Adivali), Opp. Irani Masjid, Old Thane - Pune Road, Dhahisar, Tal. - Parvel, District Raigad - 410208. Tel.:09820 028815
9	Receiver's Authorisation No. If Applicable	:	MPCB/RO(HQ)/HSMD/Author/20/EW-10 Consent No. BOMPCB/RO(HQ)/RD/CR/B-2011000619
10	Description of E-Waste (Item, Weight/Numbers):	:	Air conditioner, Laptop, monitor, CPU, UPS, PCB, printer, scanner, batteries. Total Qty - 1-250 MT
11	Name and Stamp of Sender* (Manufacturer or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler):		
	Signature	Day	Month
		01	14
		20	25
12	Transporter's Acknowledgment of Receipt of E-Waste		
	Typed Name & Stamp:	Signature	Month
	For AQSA STAMPING		01
			15
			20
			25
13	Receiver* (Collection Centre or Refurbisher or Dismantler or Recycler)		
	Name & Stamp:	Signature	Month
	For AQSA STAMPING		01
			14
			20
			25

*As applicable

Proprietor

(1) Yellow : Sender

(2) Pink : Receiver / Recycler

(3) Orange : Transporter



















(4) Green : Receiver

Form - 6
 [See Rule 19]
E-WASTE MANIFEST

1.	Sender's Name and Mailing Address: (Including Phone No.)	Vedanta Ltd. Melcoke / Power Plant II Navelim, Armona Goa 0832-2385209 Sanjay.Panab@vedanta.co.in		
2.	Sender's Authorization No., if applicable:	12/2020-PCB/531074/R0004147		
3.	Manifest Document No.:	MAY 2024 / 01		
4.	Transporter's Name and Address: (Including Phone No.)	AMAN E-Waste Recyclers Pvt. Ltd Add: S No 20/5, Plot No. 79-89, Amgaon Talasari, Dist. Palghar - 401606 M.H. India		
5.	Type of Vehicle:	TRUCK TANKER SPECIAL VEHICLE		
6.	Transporter's Registration No.:	-		
7.	Vehicle Registration No.:	GA 04 T 1465		
8.	Receiver's Name & Address:	AMAN E-WASTE RECYCLERS Pvt. Ltd. Add. : S. No. 20/5, Plot No. 79-89, Amgaon Talasari, District: Palghar - 401606 Maharashtra, INDIA		
9.	Receiver's authorization No., if applicable:	MPCB/RO(BMW)/HSMD/AUTH/23/H&OW/29		
10.	Description of E-Waste: (Item, Weight / Numbers)	Item AC/Laptop/PC	Weight 1.940MT	Nos. -
11.	Name and stamp of Sender* (Manufacture or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler):			
	Name & Stamp:	Signature:	M M D D Y Y Y Y 0 5 1 6 2 0 2 4	
12.	Transporter acknowledgement of receipt of E-Waste:			
	Name & Stamp:	Signature:	M M D D Y Y Y Y 0 5 1 6 2 0 2 4	
13.	Receiver* (Collection Centre or Refurbisher or Dismantler or Recycler) certification of receipt of E-Waste:			
	Name & Stamp:	Signature:	M M D D Y Y Y Y 0 5 1 6 2 0 2 4	

*As applicable

Form - 6
 [See Rule 19]
E-WASTE MANIFEST

1. Sender's Name and Mailing Address: (Including Phone No.)	Vedanta limited (PIG IRON PLANT) Amara - Goa 08322385289 (Sanjay.Pinal@vedanta.co.)						
2. Sender's Authorization No., if applicable:	12/2023-PCB/1754854/R000127E7						
3. Manifest Document No.:	MAY 2024 / 02						
4. Transporter's Name and Address: (Including Phone No.)	Aman E-waste Recyclers Pvt. Ltd. Add. S.No 20/5, Plot No 79-89, Amgaon Talasari, Dist. Palghar - 401606 M.H. India						
5. Type of Vehicle:	TRUCK TANKER SPECIAL VEHICLE						
6. Transporter's Registration No.:	-						
7. Vehicle Registration No.:	GA 04 T 1465						
8. Receiver's Name & Address:	AMAN E-WASTE RECYCLERS Pvt. Ltd. Add. : S. No. 20/5, Plot No. 79-89, Amgaon Talasari, District: Palghar - 401606 Maharashtra, INDIA						
9. Receiver's authorization No., if applicable:	MPCB/RO(BMW)/HSMD/AUTH/23/H&OW/29						
10. Description of E-Waste: (Item, Weight / Numbers)	Item + no. computers E-Waste	Weight 0.490	Nos. -				
11. Name and stamp of Sender* (Manufacture or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler):	<table border="0"> <tr> <td>Name & Stamp: </td> <td>Signature: </td> <td colspan="2">M M D D Y Y Y Y 0 5 1 6 2 0 2 4</td> </tr> </table>			Name & Stamp: 	Signature: 	M M D D Y Y Y Y 0 5 1 6 2 0 2 4	
Name & Stamp: 	Signature: 	M M D D Y Y Y Y 0 5 1 6 2 0 2 4					
12. Transporter acknowledgement of receipt of E-Waste:	<table border="0"> <tr> <td>Name & Stamp: </td> <td>Signature:  (Salman)</td> <td colspan="2">M M D D Y Y Y Y 0 5 1 6 2 0 2 4</td> </tr> </table>			Name & Stamp: 	Signature:  (Salman)	M M D D Y Y Y Y 0 5 1 6 2 0 2 4	
Name & Stamp: 	Signature:  (Salman)	M M D D Y Y Y Y 0 5 1 6 2 0 2 4					
13. Receiver* (Collection Centre or Refurbisher or Dismantler or Recycler) certification of receipt of E-Waste:	<table border="0"> <tr> <td>Name & Stamp: </td> <td>Signature: </td> <td colspan="2">M M D D Y Y Y Y 0 5 1 6 2 0 2 4</td> </tr> </table>			Name & Stamp: 	Signature: 	M M D D Y Y Y Y 0 5 1 6 2 0 2 4	
Name & Stamp: 	Signature: 	M M D D Y Y Y Y 0 5 1 6 2 0 2 4					

* As applicable



Aqsa Stamping

FORM 6 [See Rule 19]

E-WASTE MANIFEST

Plot No. 55, Rangara Indl. Estate, 33/35, Kharvel (Adwal), Opp. Irani Masjid, Old Thane - Pune Road, Dhuleisar, Tal. - Parvat, District Raigad - 410206. Mob : 09820 026915, 09769 204602.

1	Sender's Name and Mailing Address (including Phone No.)	VEDANTA LTD, PIG IRON DIV - EXP II AMONA/NAVELIM, TAL. BICHOLIM, GOA-403107							
2	Sender's Authorisation No, if Applicable	12/2020-PCB/557225/R0004287 dt. 24/01/2020							
3	Manifest Document No.	074(2024-25)							
4	Transporter's Name & Address (Including Phone No.)	M/s. Aqsa Stamping.							
5	Type of Vehicle	General.							
6	Transporter's Registration No.	N/A.							
7	Vehicle Registration No.	GA08VISA7							
8	Receiver's Name and Address	AQSA STAMPING, Plot No. 55, Rangara Indl. Estate, 33/35, Kharvel (Adwal), Opp. Irani Masjid, Old Thane - Pune Road, Dhuleisar, Tal. - Parvat, District Raigad - 410206, Tel.-09820 026915							
9	Receiver's Authorisation No, If Applicable	MPCB/RO(HQ)/HSMD/Author20/EW-10 Consent No. BOMPCB/RO(HQ)/RD/CR/B-2011000610							
10	Description of E-Waste (Item, Weight/Numbers):	Air conditioner, laptop, monitor, CPU, UPS, PCB, printer, scanner, cables etc. Total - 0.670 MT							
11	Name and Stamp of Sender* (Manufacturer or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler):								
	Year	Day	Month	Day	Year				
	Signature:					01	14	20	25
12	Transporter's Acknowledgment of Receipt of E-Waste								
	Typed Name & Stamp		Signature		Month	Day	Year		
	For AQSA STAMPING				01	18	20	25	
13	Receiver* (Collection Centre or Refurbisher or Dismantler or Recycler)								
	Name & Stamp		Signature		Month	Day	Year		
	For AQSA STAMPING				01	14	20	25	

*As applicable

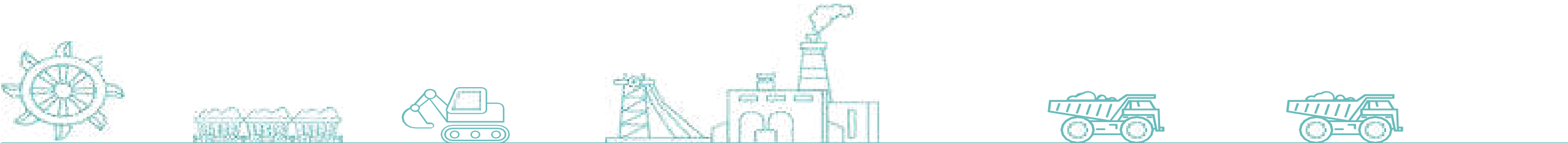
Proprietor

(1) Yellow : Sender (2) Pink : Receiver / Recycler
(3) Orange : Transporter (4) Green : Receiver

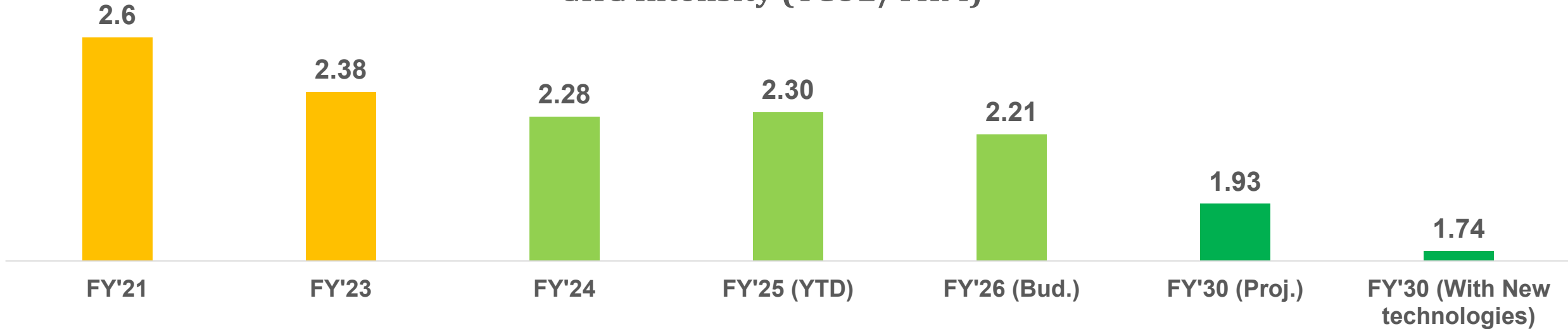
Annexure XX
Decarbonization plan



VAB GHG Roadmap



GHG Intensity (TCO2/THM)



- Initiatives:**
- PP Turbine upgradation.
 - Increase in PCI injection
 - Coke Breeze reduction by using BF dust in SP
 - Dual Burner in SP ignition furnace

- Initiatives:**
- Oxygen Enrichment.
 - Fuel Switch- Biodiesel Usage
 - Process Optimization- Increased HBT
 - EV Charging station

- Initiatives:**
- 100 KW solar PP.
 - Energy saving projects having annual saving potential of 10 MU's
 - Process improvement
 - EV Deployment

- Initiatives:**
- Waste heat recovery from sinter cooler for coke drying.
 - PCI increase from 130 to 155 Kg/thm.
 - 1 MW RE setup (0.5 MW inst, 0.5 MW RE-PPA).
 - Energy saving projects of 4 MU's annual saving

- Initiatives:**
- New energy efficient BF4 (feasibility study done).
 - Top Recovery Turbine
 - Process Opt. to reduce TCBM to 530 Kg/THM with 200 Kg/THM PCI (contingent to BF4).
 - Phase wise shifting to 100% EV's.

- Initiatives:**
- Study and implement new emerging technologies such as H2, NG Injection, Biomass usage & CCUS.

GHG reduction plan

FY'26 Projects (Projected intensity 2.21 TCO2/THM)

S. No.	Project Description	Impact (in TCO2)	Impact (in TCO2/THM)
PROJECT FOR THE YEAR FY'26			
1	Waste heat recovery from sinter cooler for coke drying.	10155	0.010
2	PCI increase from 130 to 155 Kg/thm with New PCI unit.	13475	0.013
3	Reducing TCBM from 600 to 582 Kg/THM	58925	0.056
4	Energy saving projects having annual saving potential of 4 MU's	2840	0.003

FY'26-30 Projects (Projected cumulative intensity 1.93 TCO2/THM)

S. No.	Project Description	Impact (in TCO2)	Impact (in TCO2/THM)
PROJECTS TILL FY'30			
1	New Energy Efficient blast furnace	295876	0.148
2	Increasing PCI from 155Kg/THM to 200 Kg/THM	46200	0.023
3	Process Optimization to reduce TCBM to 530 Kg/THM with 200 Kg/THM PCI	126133	0.063
4	Waste heat recovery from Sinter pant for coke drying	31533	0.016
5	Top Recovery turbine	42600	0.021
6	Other initiatives for using Alternate fuel, EV and energy saving projects	5000	0.003
		547342	0.28

Alternate Fuels (With advancement in technology)

Figure 15 Coal consumption can be reduced significantly through the use of alternative fuels



Projected cumulative intensity 1.73 TCO₂/THM

S. No.	Project Description	Impact (in TCO ₂)	Impact (in TCO ₂ /THM)
1	Hydrogen Injection @ 13 Kg/THM replacing 33 Kg/THM of coke	208120	0.104
2	Natural Gas @ 74 SCM/THM replacing 55 KG/THM of coke.	82690	0.041
3	Biomass Injection @ 50 Kg/THM replacing 25 KG/THM of PCI	82167	0.041
4	CCUS installation- 40 TPD.	14825	0.007
		387801	0.19

Source: Council on Energy, Environment & Water (CEEW)

Thank You

Annexure XXI
Heat stress study reports

Final Report

Quantitative Exposure Assessment Monitoring

Conducted at

Value Added Business (VAB)- Sesa Goa Iron Ore plant, Goa

Assessment Period: 21st to 23rd September, 2023

Date of Final Report: 23rd November, 2023

Submitted to

Dr. Abel Da Costa

Prepared by

Maulik Shah CIH

E-Mail: Maulik.shah@shahihs.com

Mobile: +91 9033893895

SHAH Industrial Hygiene Solutions

A-103, Elite 18 Square, CG Road,

Near President Hotel, Navrangpura,

Ahmedabad-380009

Contents	Page No.
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2. Methods and Evaluation Criteria	3
3. Results and Observations	4
4. Recommendations	5
5. Abbreviations	5
Appendices:	
Appendix 1: Industrial Hygiene Results Sheet	6
Appendix 2: Evaluator's CIH Certificate	7
Appendix 3: Calibration Certificates of IH instruments used during monitoring	8

1. Executive Summary

Whole Body Vibration Monitoring:

Total five whole body vibration samples were collected to check personal whole body vibration parameter. Eight-hour vibration acceleration result of all the samples are within the TLV-TWA as per ACGIH.

Heat Stress Monitoring:

Total Two area heat stress samples were collected to check area heat stress in the area. Result of both the areas heat stress is within TLV as per ACGIH.

Primary suggestions:

Heat stress-Primary suggestions:

- Recommended to continue providing electrolyte/buttermilk etc., to the employees working in those area to avoid heat related illness and to keep them hydrated.
- Recommended to provide training to the employees on “Signs and symptoms of Heat related illness” to get indication about the illness ASAP and can cure it.

Please read this report in conjunction with the following documents:

1. Industrial Hygiene Results Sheet as Appendix 1

2. Methods and Evaluation Criteria

a. whole body vibration sampling methodology

- 2.1 Pre calibrated SV 111- portable whole body vibration machine was used for active monitoring of whole body vibration exposure.
- 2.2 Monitoring plate was kept on the seat of the machine or chair and reading was taken after certain amount of time.

b. Area Heat Stress sampling methodology

- 2.3 SIHS team selected appropriate sensor placement in areas of heat exposure and had kept the meter around 1.2 meter height for 20 minutes to get a stable reading of all the parameters (dry bulb, wet bulb, globe temperatures, and WBGT index).

Whole Body Vibration & Heat Stress Evaluation Criteria

The ACGIH, 2023 established TLVs was used as primary evaluation criteria for comparing exposure monitoring results.

TLVs of physical parameter:

Whole body vibration	0.87 m/s ²
Heat stress	Refer appendix 1

3. Results and activity details

Please refer Appendix 1- Industrial Hygiene Results Sheet to find other monitoring data of the assessment.

Whole body vibration observation

1. **WBV- 01:** An employee was involved in wheel loader operation at the screening area. He was involved in loading, chipping, and hiping. He had completed loading of 16 chipping trucks for 80 minutes and hiping of 16 trucks for 25 minutes. He was also working in the skull yard, pig yard, and slag dryer yard. The skull material was large. His seat was provided with air suspension and seat adjustable system. That seat material was PU foam skid steer. He took a break of thirty minutes for lunch and 15 minutes for tea and breakfast. The road condition was a composite longitudinal slop with a small pit. Health issue: Some time during heavy workload, employee was getting back pain.
2. **WBV- 02:** An employee was involved in wheel loader operation at plant-5 area. He was involved in iron ore dosing, loading, and shifting. During the monitoring, he had completed loading of five to six trucks. He was also involved in the iron ore shifting. His seat condition was good and adjustable. That seat material was PU foam skid steer. He took a break for 30 minutes for lunch and 15 minutes for tea and breakfast. The road condition was sloppy, with vertical and horizontal curves on the road.
3. **WBV- 03:** An employee was involved in a wheel loader operation at the old coke shade area. He was involved in coal feeding into the three feeders for 8 hours. He had completed feeding of four buckets. His seat condition was good and adjustable. That seat material was a PU foam skid steer. He took a break of thirty minutes for lunch and fifteen minutes for tea and breakfast. The road condition was vertical and horizontal curves on the road.
4. **WBV- 04:** An employee was involved in a wheel loader operation at plants 6 and 7 area. He was involved in truck loading and stacking. He was working in coke yard 1, coke yard 2, new coal shade, and briquette plant shade. During the monitoring, he was involved in coke loading at Coke Yard 2, sixteen big trucks, and two small trucks loading at the new coal shade area. His seat was with an air suspension seat with seat adjustment system. That seat material was a PU foam skid steer. He took a break of thirty minutes for lunch and fifteen minutes for tea and breakfast. The road condition was vertical and horizontal curves with few pits on the road.
5. **WBV- 05:** An employee was involved in a wheel loader operation at the dispatch area. He was involved in pig loading into a truck. During the monitoring, he was involved in loading of six to seven trucks for twenty to twenty-five minutes. His seat condition was good and adjustable. That seat material was a PU foam skid steer. He took a break of thirty minutes for lunch and fifteen minutes for tea and breakfast. The road condition was vertical and horizontal curves with few pits on the road.

Heat stress observation:

1. **WBGT -01:** PID-1 location: PCM hot metal handling area. Worker was involved in moulding preparation at ladle. He used to observe material during filling it into the mould. He was also involved in removing the clogged metal near the tap hole with the help of the rod. When he was going near the tap hole that time he was wearing a leather jacket. The furnace was open 4 times in a day. Two workers were there for the ladle but both are working alternately so they are getting proper rest as one worker stay in the cabin when another is working in the

area. High pressurized fan was there and the workers stayed near the fan if there was no work near the tap hole.

2. **WBGT -02:** PID-2 Cast house- Employees were involved in operations at the cast house area. Five full-skilled workers, four semi-skilled workers, and one cast house in-charge were there. Full-skilled workers were involved, like two at the tap hole, two sludge or metal doms, and one at ladle removal. Semi-skilled workers were involved in two sub runner preparations and two sludge preparations. All workers were working alternately as per their operations. The tap-hole worker was wearing a leather jacket during his activity. After opening, the furnace was running continuously for 1.15 hours. After closing, it took 45 minutes for the second cycle of preparation. Only three times opening the furnace in 8 hours. The furnace opens three times in a shift.

4. Recommendations

Area Heat stress Monitoring

- Recommended to continue providing electrolyte/buttermilk etc., to the employees working in those area to avoid heat related illness and to keep them hydrated.
- Recommended to provide training to the employees on “Signs and symptoms of Heat related illness” to get indication about the illness ASAP and can cure it.

5. Abbreviations:

Short form	Full form
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
ABIH	American Board of Industrial Hygienist
CIH	Certified Industrial Hygienist
IH	Industrial Hygiene
SIHS	SHAH Industrial Hygiene Solutions
TLV	Threshold Limit Value
TWA	Time Weighted Average

During the assessment, we appreciate the cooperation and support we received from all levels of professionals from Value Added Business (VAB)- Sesa Goa Iron Ore plant, Goa.

Report Prepared By



Maulik Shah CIH

SHAH Industrial Hygiene Solutions, Vadodara

Appendix 1:

Whole body vibration exposure results:

Sr. no.	Date	Department	Activity	Vehicle Number	Employee name	Location	Start time	End time	Duration (Min)	Current Exposure m/s ²	Daily 8 hours exposure m/s ²	ACGIH exposure limit for current exposure	ACGIH exposure limit for daily exposure
1	22/09/2023	Dispatch area PID- 1	Wheel loader operation	Samim Ali	MH09 GF 3742	Screening area	9:25	11:34	2:09	0.357	0.686	1.69	0.87
2	22/09/2023	PID- 1	Wheel loader operation	Shivchandra	GA06 E 0698	Plant- 5	12:25	14:22	1:57	0.319	0.645	1.95	0.87
3	22/09/2023	MCD	Wheel loader operation	Shubhash Kumar	GA06 D 6752	Old coke shade	14:39	16:40	2:01	0.304	0.605	1.72	0.87
4	23/09/2023	PID- 1	Wheel loader operation	Sanjay Prajapati	GA04 E 6524	Plant 6&7	10:15	12:26	2:11	0.331	0.632	1.68	0.87
5	23/09/2023	PID- 2	Wheel loader operation	Sambha Naik	MH14 TCF 500	Dispatch area	15:02	16:45	1:43	0.362	0.778	2.04	0.87

Heat stress exposure results:

Sr. no.	Sample ID	Department	Location	Time	WBGT Meter						Metabolic rate of acclimatized workers and allocation of work in a cycle of work and recovery	ACGIH exposure limit- TLV (°C)
					Globe Temp. T _g (°C)	Wet bulb Temp. T _{wb} (°C)	Dry bulb Temp. T _d (°C)	WBGT i (°C)	RH (°C)	Dew (°C)		
1	WBGT-1	PID-1	PCM hot metal handling area	20	29.9	28.8	29.2	28.6	84	36	Moderate work of tap hole workers (0 to 25%)	31.5
2	WBGT-5	PID-2	Cast house	20	31.0	27.8	30.7	30.4	69	30	Moderate for sludge and metal dom workers (0 to 25%)	31.5

Appendix 2: CIH Certificate

The Board for Global EHS Credentialing® (BGC®)

through its vested authority, hereby confirms that

Maulik Shah

has met all requirements of education, experience, and examination set forth through the BGC's American Board of Industrial Hygiene® (ABIH®) credentialing division for initial certification in the Comprehensive Practice of Industrial Hygiene and is thereby conferred the credential of

Certified Industrial Hygienist® (CIH®)

The aforementioned individual is given all rights, privileges, and responsibilities as both a diplomate of the BGC and holder of the CIH credential, provided that the credential is not suspended or revoked, and it is renewed annually. Moreover, the holder must meet all recertification requirements, including the obligation to practice ethically as prescribed by the BGC.



Credential Number: 12177 CP
Award Date: November 4, 2020
Expiration Date: June 1, 2026



Cythia Hanks, CIH
Chair of the Board of Directors



Ulric K. Chung, MCS, PhD
Chief Executive Officer and Secretary

Appendix 3: Calibration Certificates



TSI INCORPORATED – OCONOMOWOC

2000 Cappellen Center Drive, Oconomowoc, WI 53099, USA
Tel: (608) 861-2911 • Fax: (608) 861-0773 • web: www.tsi.com

An ISO 9001
Registered Company

Certificate of Calibration

Certificate Number: 2205040818T1PW050005

Model: QuasTemp® 32
S/N: 1PW050005

Date Issued: 04-May-2022

On this day of manufacture and calibration, TSI certifies that the above listed product meets or exceeds the performance requirements of the following standard(s):

BS EN 27243(1994), ISO 7243(1985) - Hot environments. Estimation of the heat stress on working man based on the WBGT-index (wet-bulb globe temperature)

Test Conditions: Temp: 18-22°C Humidity: 20-80% R.H. Barometric Pressure: 950-1050 mBar

Test Procedure: 3058-750

Subassembly:

Standard Sensor Bar NA

Reference Standard(s):

Device	Ref Standard Cal Due	Uncertainty - Estimated at 95% Confidence Level (k=2)
Fluke 45	25-Feb-2023	±1.4% AC Voltage, ±0.1% DC Voltage
Fluke 152A Thermometer	23-Feb-2022	±1.00 Degrees C Temperature

Calibrated By:



Ryan Owen - Application

In order to maintain best instrument performance over time and in the event of inspection, audit or litigation, we recommend the instrument be recalibrated annually. Any number of factors may cause the calibration to drift before the recommended interval has expired. See user manual for more information.

All equipment used in the test and calibration of this instrument is traceable to NIST, and applies only to the unit identified above. This report must not be reproduced, copied or its entirety, without the written approval of TSI, Inc.



TSI INCORPORATED – GCONOMOWOC

1380 Corporate Center Drive, Oconomowoc, WI 53066 USA
tel: 800-451-2851 • tel: 608-833-0279 • web: tsi.com

Ac-001502
Registered Company

EU Declaration of Conformity

Certificate Number: 2205040818-TPW050005

Product Line: Area Heat Stress Monitor

Model: CustTemp® 32

S/N: TPW050005

Directives Covered:

- ▶ EMC / Council Directive 2014/30/EU on Electromagnetic Compatibility
- ▶ Safety / Council Directive 2014/35/EU on Low Voltage Equipment Safety
- ▶ RoHS / Council Directive 2011/65/EU on the restriction and use of certain hazardous substances
- ▶ WEEE / Council Directive 2012/19/EU on waste electrical and electronic equipment

The basis on which conformity is being declared:

EN 61326-1 (2005) Electrical equipment for measurement, control and laboratory use – EMC requirements
Group 1, Class B Equipment (emissions)

EN 61326-1 (2005) Electrical equipment for measurement, control and laboratory use – EMC requirements
Industrial Location Immunity

IEC 61010-1 (2010) Safety requirements for electrical equipment for measurement, control, and laboratory use
Part 1: General requirements

CFR-47 (2008) Code of Federal Regulations: Part 18 Subpart B - Radio Frequency Devices - Unintentional Radiators

EN 50681 (2012) Technical documentation for the assessment of electrical and electronic products with respect
to the restriction of hazardous substances

Note: This certification applies to all standard options and accessories supplied with the instrument.

At the end of its life cycle, this product, and any internal power cell, must be sent to a WEEE recycling center, and is marked accordingly.

The technical construction file required by this directive is maintained in Oconomowoc, WI USA.



Tom Jacobson - Vice President - Engineering, TSI, Inc.

Annexure XXIII
Efficiency monitoring reports



An ISO 9001:2015
OHSAS 45001:2018

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LABORATORY PRIVATE LIMITED

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TEST REPORT

No. 2024100081

EFFICIENCY REPORTS OF BF – 1 BAG HOUSE – PIG IRON DIVISION - 1					
1.	Name of the Project	:	M/S Vedanta Limited		
2.	Customer Address	:	Amona,Navelim, Bicholim - Goa		
3.	Sample Location	:	BF - 1 Bag House - Pig Iron Division - I (Capacity – 80.000)		
4.	Date of Sampling	:	05.10.2024	Sampling Time	10.00 AM to 10.50 AM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period	10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m)	30
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088		
Report Date : 10.11.2024					

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	414/10240033/10240034	412/10240035/10240036
Stack Diameter (m)	1.85	1.85
Shape	Round	Round
Temperature of flue gas (°C)	46.0	42.85
Flue Gas Velocity (m/s)	11.97	12.29
Flue Gas Discharged (Nm ³ /hr)	98190.7	100815.75

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	712.6	7.25	99.0 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

End of Report

Authorized Signatory

LABORATORY HEAD

(NEELAKANDAN)

Recognized through NABL
accreditation ISO/IEC
17025:2017, Certification No:
13926, Validity from 20.06.2024
to 19.06.2026



“PRAKRUTI BHAVAN,” #200, 1st& 2nd Floor, 40th Main,
1st Cross, BTM Layout II Stage, Behind Central Silk Board
Bengaluru – 560068, Karnataka, India, Telefax:
+91.80.26783006 Email: mail@metamorphosis-india.com.



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OHSAS 45001:2018

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TEST REPORT

No. 2024100082

EFFICIENCY REPORTS OF BF – 2BAG HOUSE – PIG IRON DIVISION - 1					
1.	Name of the Project	:	M/S Vedanta Limited		
2.	Customer Address	:	Amona,Navelim, Bicholim - Goa		
3.	Sample Location	:	BF - 2 Bag House - Pig Iron Division - I (Capacity – 95,000)		
4.	Date of Sampling	:	28.10.2024	Sampling Time	10.00 AM to 10.40 AM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period	10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m)	31
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088		
Report Date : 10.11.2024					

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	427/10240155/10240156	428/10240157/10240158
Stack Diameter (m)	2.0	2.0
Shape	Round	Round
Temperature of flue gas (°C)	38.2	43.6
Flue Gas Velocity (m/s)	12..36	12.25
Flue Gas Discharged (Nm3/hr)	121272	122978

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	781.0	9.7	98.7 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

End of Report

Authorized Signatory

LABORATORY HEAD

(NEELAKANDAN)



Recognized through NABL accreditation ISO/IEC 17025:2017, Certification No: 13926, Validity from 20.06.2024 to 19.06.2026

“PRAKRUTI BHAVAN,” #200, 1st& 2nd Floor, 40th Main, 1st Cross, BTM Layout II Stage, Behind Central Silk Board Bengaluru – 560068, Karnataka, India, Telefax: +91.80.26783006 Email: mail@metamorphosis-india.com.



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OHSAS 45001:2018

METAMORPHOSISSM

LABORATORY PRIVATE LIMITED

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TEST REPORT

No. 2024100083

EFFICIENCY REPORTS OF LDC - BAG HOUSE – PIG IRON DIVISION – I					
1.	Name of the Project	:	M/S Vedanta Limited		
2.	Customer Address	:	Amona, Navelim, Bicholim - Goa		
3.	Sample Location	:	LDC - Bag House - Pig Iron Division – I (Capacity – 1,15,000)		
4.	Date of Sampling	:	08.10.2024	Sampling Time	12.30 PM to 01.10 PM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period	10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m)	21
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088		
Report Date : 10.11.2024					

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	440/10240161/10240162	425/10240163/10240164
Stack Diameter (m)	1.4	1.4
Shape	Round	Round
Temperature of flue gas (°C)	31.5	37.6
Flue Gas Velocity (m/s)	10.83	12.91
Flue Gas Discharged (Nm ³ /hr)	53299	62310

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	758.8	5.35	99.30 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

End of Report

Authorized Signatory

LABORATORY HEAD

(NEELAKANDAN)

Recognized through NABL
accreditation ISO/IEC
17025:2017, Certification No:
13926, Validity from 20.06.2024
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TEST REPORT

No. 2024100084

EFFICIENCY REPORTS OF MCD I&II BAG HOUSE OF COKE SCREENING PLANT - I

1.	Name of the Project	:	M/S Vedanta Limited		
2.	Customer Address	:	Amona, Navelim, Bicholim - Goa		
3.	Sample Location	:	MCD I & II, Bag House of Coke Screening Plant - I (Capacity - 81,000)		
4.	Date of Sampling	:	07.10.2024	Sampling Time	10.00 AM to 10.40 AM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period	10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m)	16.81
7.	Instrument used	:	Eco Tech Instruments - MLPL/INS/088		

Report Date : 10.11.2024

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	435/10240051/10240052	417/10240053/10240054
Stack Diameter (m)	1.25	1.25
Shape	Round	Round
Temperature of flue gas (°C)	48	38.8
Flue Gas Velocity (m/s)	13.00	12.2
Flue Gas Discharged (Nm ³ /hr)	48382	46678

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	656.7	5.95	99.2 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

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TEST REPORT

No. 2024100085

EFFICIENCY REPORTS OF MCD I&II BAG HOUSE OF COKE SCREENING PLANT – II & SCREENING TOWER - I

1.	Name of the Project	:	M/S Vedanta Limited		
2.	Customer Address	:	Amona, Navelim, Bicholim - Goa		
3.	Sample Location	:	MCD I & II, Bag House of Coke Screening Plant – II & Screening Tower – I (Capacity – 29.000)		
4.	Date of Sampling	:	07.10.2024	Sampling Time	12.40 PM to 01.20 PM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period	10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m)	17.5
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088		

Report Date : 10.11.2024

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	432/10240057/10240058	418/10240059/10240060
Stack Diameter (m)	0.8	0.8
Shape	Round	Round
Temperature of flue gas (°C)	36.2	42.95
Flue Gas Velocity (m/s)	12.33	12.30
Flue Gas Discharged (Nm ³ /hr)	19418	19026

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	456.3	5.25	98.8 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

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TEST REPORT

No. 2024100086

EFFICIENCY REPORTS OF MCD I&II BAG HOUSE OF COKE SCREENING PLANT – II & SCREENING TOWER - II				
1.	Name of the Project	:	M/S Vedanta Limited	
2.	Customer Address	:	Amona,Navelim, Bicholim - Goa	
3.	Sample Location	:	MCD I &II ,Bag House of Coke Screening Plant – II & Screening Tower – II (Capacity – 54,500)	
4.	Date of Sampling	:	07.10.2024	Sampling Time 03.10 PM to 03.50 PM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period 10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m) 19.94
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088	
Report Date : 10.11.2024				

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	433/10240063/10240064	421/10240067/10240068
Stack Diameter (m)	1.1	1.1
Shape	Round	Round
Temperature of flue gas (°C)	48.2	45.97
Flue Gas Velocity (m/s)	12.41	12.61
Flue Gas Discharged (Nm ³ /hr)	35744	36606

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	523.3	7.15	98.7 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, **Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.**

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

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TEST REPORT

No. 2024100087

EFFICIENCY REPORTS OF MCD I&II BAG HOUSE OF COKE SCREENING PLANT – II & SCREENING TOWER - III					
1.	Name of the Project	:	M/S Vedanta Limited		
2.	Customer Address	:	Amona,Navelim, Bicholim - Goa		
3.	Sample Location	:	MCD I &II ,Bag House of Coke Screening Plant – II & Screening Tower – III (Capacity – 30,000)		
4.	Date of Sampling	:	07.10.2024	Sampling Time	05.20 PM to 06.00 PM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period	10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m)	22.78
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088		
Report Date : 10.11.2024					

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	426/10240069/10240070	419/10240071/10240072
Stack Diameter (m)	0.8	0.8
Shape	Round	Round
Temperature of flue gas (°C)	40.0	43.25
Flue Gas Velocity (m/s)	12.5	12.74
Flue Gas Discharged (Nm ³ /hr)	20389	19716

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	493.7	6.6	98.7 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

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TEST REPORT

No. 2024100088

EFFICIENCY REPORTS OF BAG HOUSE OF CAST HOUSE BLAST FURNACE – III PIG IRON DIVISION - II				
1.	Name of the Project	:	M/S Vedanta Limited	
2.	Customer Address	:	Amona, Navelim, Bicholim - Goa	
3.	Sample Location	:	Bag House of Cast house Blast Furnace – III, Pig Iron Division – II (Capacity – 35,0600)	
4.	Date of Sampling	:	08.10.2024	Sampling Time 10.00 AM to 10.40 AM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period 10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m) 30
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088	
Report Date : 10.11.2024				

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	439/10240167/10240168	406/10240169/10240072
Stack Diameter (m)	2.8	2.8
Shape	Round	Round
Temperature of flue gas (°C)	44.5	43.2
Flue Gas Velocity (m/s)	11.93	12.15
Flue Gas Discharged (Nm ³ /hr)	225235	231088

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	487.9	6.4	98.8 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

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No. 2024100089

EFFICIENCY REPORTS OF BAG HOUSE OF STOCK HOUSE BLAST FURNACE – III - PIG IRON DIVISION - II				
1.	Name of the Project	:	M/S Vedanta Limited	
2.	Customer Address	:	Amona, Navelim, Bicholim - Goa	
3.	Sample Location	:	Bag House of Stock house Blast Furnace - III - Pig Iron Division – II (Capacity – 32,0610)	
4.	Date of Sampling	:	08.10.2024	Sampling Time 12.30 PM to 01.10 PM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period 10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m) 30
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088	
Report Date : 10.11.2024				

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	411/10240173/10240174	408/10240175/10240176
Stack Diameter (m)	2.8	2.8
Shape	Round	Round
Temperature of flue gas (°C)	34	36.7
Flue Gas Velocity (m/s)	12.13	12.19
Flue Gas Discharged (Nm ³ /hr)	237429	236328

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	418.1	7.5	98.2 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, **Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.**

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

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TESTTEST

No. 2024100090

EFFICIENCY REPORTS OF HEAD ESP – PIG IRON DIVISION - II

1.	Name of the Project	:	M/S Vedanta Limited		
2.	Customer Address	:	Amona, Navelim, Bicholim - Goa		
3.	Sample Location	:	Head ESP - Pig Iron Division – II (Capacity – 4,50,000)		
4.	Date of Sampling	:	09.10.2024	Sampling Time	10.00 AM to 10.40 AM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period	10.10.2024 to 15.10.2024
6.	Sample Code	:	-	Stack Height (m)	100
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088		
Report Date : 10.11.2024					

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	409/10240179/10240180	407/10240181/10240182
Stack Diameter (m)	6.8	6.8
Shape	Round	Round
Temperature of flue gas (°C)	41.5	38.85
Flue Gas Velocity (m/s)	12.53	12.27
Flue Gas Discharged (Nm ³ /hr)	1407654	1393766

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	782.4	6.5	99.30 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

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TEST REPORT

No. 2024100091

EFFICIENCY REPORTS OF SINTER TAIL ESP – PIG IRON DIVISION - II

1.	Name of the Project	:	M/S Vedanta Limited		
2.	Customer Address	:	Amona, Navelim, Bicholim - Goa		
3.	Sample Location	:	Sinter Tail ESP - Pig Iron Division - II (Capacity – 2,47,200)		
4.	Date of Sampling	:	09.10.2024	Sampling Time	12.30 PM to 01.30 PM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period	10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m)	30
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088		
Report Date : 10.11.2024					

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	404/10240185/10240186	413/10240187/10240188
Stack Diameter (m)	2.7	2.7
Shape	Round	Round
Temperature of flue gas (°C)	48.2	40.1
Flue Gas Velocity (m/s)	12.41	12.30
Flue Gas Discharged (Nm ³ /hr)	245832	219490

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	652.3	5.8	99.2 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

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TEST REPORT

No. 2024100092

EFFICIENCY REPORTS OF SINTER SCREENING BAG HOUSE OF SINTER PLANT – PIG IRON DIVISION - II					
1.	Name of the Project	:	M/S Vedanta Limited		
2.	Customer Address	:	Amona, Navelim, Bicholim - Goa		
3.	Sample Location	:	Sinter Screening Bag House of Sinter Plant - Pig Iron Division - II (Capacity – 2,45,900)		
4.	Date of Sampling	:	09.10.2024	Sampling Time	02.50 PM to 03.30 PM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period	10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m)	30
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088		
Report Date : 10.11.2024					

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	420/10240191/10240192	410/10240193/10240194
Stack Diameter (m)	2.5	2.5
Shape	Round	Round
Temperature of flue gas (°C)	38.2	39.4
Flue Gas Velocity (m/s)	12.00	12.12
Flue Gas Discharged (Nm ³ /hr)	183911	190005

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	603.4	5.35	99.1 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, **Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.**

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

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TEST REPORT

No. 2024100093

EFFICIENCY REPORTS OF PROPORTIONING BIN BAG HOUSE SINTER PLANT – PIG IRON DIVISION - II					
1.	Name of the Project	:	M/S Vedanta Limited		
2.	Customer Address	:	Amona, Navelim, Bicholim - Goa		
3.	Sample Location	:	Proportioning Bin Bag House Sinter Plant - Pig Iron Division – II (Capacity – 2,16,900)		
4.	Date of Sampling	:	09.10.2024	Sampling Time	05.00 PM to 05.40 PM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period	10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m)	30
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088		
Report Date : 10.11.2024					

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	403/10240197/10240198	416/10240199/10240200
Stack Diameter (m)	2.5	2.5
Shape	Round	Round
Temperature of flue gas (°C)	42	48.2
Flue Gas Velocity (m/s)	12.41	12.29
Flue Gas Discharged (Nm ³ /hr)	188111	183044

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	586.3	6.25	99.0 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, **Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.**

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

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TEST REPORT

No. 2024100094

EFFICIENCY REPORTS OF FLUX & FUEL BAG HOUSE OF SINTER PLANT – PIG IRON DIVISION - II					
1.	Name of the Project	:	M/S Vedanta Limited		
2.	Customer Address	:	Amona, Navelim, Bicholim - Goa		
3.	Sample Location	:	Flux & Fuel Bag House of Sinter Plant - Pig Iron Division – II (Capacity – 1,13,3000)		
4.	Date of Sampling	:	09.10.2024	Sampling Time	10.00 AM to 10.40 AM
5.	Date of Sample Receipt	:	10.10.2024	Analysis Period	10.10.2024 to 15.10.2024
6.	Sample Code	:	--	Stack Height (m)	30
7.	Instrument used	:	Eco Tech Instruments – MLPL/INS/088		
Report Date : 10.11.2024					

SAMPLING DETAILS

Sample Details	Inlet	Outlet
Sample Code	429/10240203/10240204	437/10240205/10240206
Stack Diameter (m)	1.62	1.62
Shape	Round	Round
Temperature of flue gas (°C)	38.2	36.3
Flue Gas Velocity (m/s)	12.25	12.19
Flue Gas Discharged (Nm ³ /hr)	78910	79115

ANALYSIS REPORT

PARAMETER	RESULT		Operating Efficiency %	Methods	Unit
	Inlet	Outlet			
Particulate Matter (TPM / SPM)	506.3	6.45	98.9 %	IS: 11255 (Part 1)	mg / Nm ³

NS = Not Specified, Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	As per CPCB Standards, Report Status:- All values are within the stipulated limits.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bangalore

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“PRAKRUTI BHAVAN,” #200, 1st& 2nd Floor, 40th Main,
1st Cross, BTM Layout II Stage, Behind Central Silk Board,
Bengaluru – 560068, Karnataka, India, Telefax:
+91.80.26783006 Email: mail@metamorphosis-india.com.



An ISO 9001:2015
OHSAS 45001:2018

METAMORPHOSISSM

LABORATORY PRIVATE LIMITED

————— *thought.....process.....reality!!*

Annexure XXIV
EC advertisement in newspapers

EC advertisement on local newspapers

Wayanad LS bypoll: Priyanka Gandhi files nomination for electoral debut

By ...

NEW DELHI ...

“In the spirit of brotherly love, I have supported for my mother, for my father and for many of my party colleagues. This is the first time I am campaigning for myself.”

—Priyanka Gandhi

Wayn ...

VEDANTA LIMITED

PUBLIC NOTICE

Mishra Valves India Ltd

PRICING BRACKET DETAILS

SEARCHED BY: ...

EC advertisement on local newspapers

The image shows a collage of newspaper pages. On the left, there are two crossword puzzles. In the center, a yellow circle highlights an advertisement for 'वैदता लिमिटेड' (Vaidata Limited) with the heading 'सामाजिक सूचना' (Social Information). To the right, there are several text-based advertisements, including one for 'अस्मिता की जी. सी. डिप्लोमा' (Asmita Ki Ji. Si. Diploma). At the bottom, the newspaper masthead for 'अर्थ वार्ता' (Arth Varta) and 'सोयम वार्ता' (Soyam Varta) is visible, along with a large advertisement for 'रिलायन्स आणि एनविडिया' (Reliance and Envidiya) regarding artificial intelligence.

Annexure XXV
Copies submitted to local bodies



sesa goa iron ore

Ref No. VAB/ENV/2024-25/39

28/10/2024

To,
North Goa Zilla Panchayat
Junta House, 3rd L/f, 5th Floor
Panaji, Tiwadi, Goa-403001

Subject: Submission of Environment Clearance copy

Sir,

We would like to inform your good office that we have received Environment Clearance for our expansion project for Value added Business at Vedanta Ltd. Amona – Navelim Goa side EC Identification No EC24A1001GAS281560N dated 18/10/2024. We are submitting herewith the copy of Environmental Clearance for your reference.

Thanking you,

Yours faithfully,

For Vedanta Limited – Value Added Business

Sapresh Sardesai

CEO-Value Added Business
Vedanta Ltd. Amona, Goa

VEDANTA LIMITED

Area Office (Goa): New Global Centre Complex, Panaji, Panaji Goa - 403001, India
T: +91 9822 240041, Website: www.vedantalimited.com

Registered Office: Vedanta Limited, 10th Floor, 1st wing, 1st Mile, Pirojpur, Ahmedabad, Gujarat, India - 380015, India
CIN: L20090GRL00012009



sesa goa iron ore

Ref No. VAB/ENV/2024-25/40

28/10/2024

To,
District Magistrate
Collectorate North,
Panaji, Goa-403001

Subject: Submission of Environment Clearance copy

Sir,

We would like to inform your good office that we have received environment clearance for our expansion project for Value added Business at Vedanta Ltd. Amona – Navelim Goa vide EC Identification No [C]4A1001GA5281560N dated 18/10/2024. We are submitting herewith the copy of Environmental Clearance for your reference.

Thanking you,

Yours faithfully,

For Vedanta Limited – Value Added Business

Sapresh Sardesai

CEO-Value Added Business
Vedanta Ltd. Amona, Goa

VEDANTA LIMITED
Sesa Goa Iron Ore, Sesa Goa (EC) [C]4A1001GA5281560N, Panaji, Goa-403001, India
T: +91 9822 040000 | Website: www.vedantalimited.com

Registered Office: Vedanta Limited, 1st Floor, 'C' Wing, Sesa Goa Iron Ore Project, Amona, Navelim, Taluka, South Goa District, Goa-403001, Maharashtra, India
T: +91 9822 040000

VEDANTA LIMITED



sesa goa iron ore

Ref No. VAR/ENV/2024-25/41

28/10/2024

To,
Directorate of Industries trade and commerce
Udyog Bhavan,
Panaji, Goa- 403001

Subject: Submission of Environment Clearance copy

Sr,

We would like to inform your good office that we have received environment clearance for our expansion project for Value added Business at Vedanta Ltd. Amona -- Navelim Goa vide EC identification No EC24A1001GAS28156DN dated 18/10/2024. We are submitting herewith the copy of Environmental Clearance for your reference.

Thanking you,

Yours faithfully,

For Vedanta Limited – Value Added Business


Sagar Sardesai


CEO-Value Added Business
Vedanta Ltd. Amona, Goa

VEDANTA LIMITED
Basilica Road, New Goa, 36007 Complex, Panaji, Goa - 401 012, India
T: +91 962 449481 | Website: www.vedantalimited.com

Registered Office: Vedanta Limited, 1st Floor, 3rd Wing, Basilica Road, Complex, Panaji, Goa, India. Phone: +91 962 449481 | Website: www.vedantalimited.com
CIN: L22200GO1999PLC000001



sesa goa iron ore

Ref No. VAB/ENV/2024-25/42

28/10/2024

To,
Deputy Collector &SDO
Udyog Bhavan,
Panaji, Goa- 403001

Subject: Submission of Environment Clearance copy

Sir,

We would like to inform your good office that we have received environment clearance for our expansion project for Value added Business at Vedanta Ltd. Amona – Navelim Goa vide EC Identification No EC24A1001GAS281560N dated 18/10/2024. We are submitting herewith the copy of Environmental Clearance for your reference.

Thanking you,

Yours faithfully,

For Vedanta Limited – Value Added Business

Saptesh Sardesai

CEO-Value Added Business
Vedanta Ltd. Amona, Goa

VEDANTA LIMITED

Old Goa Iron Ore, Near Old, PO Old, Tal. Panaji, Dist. - 403001, India
T: +91 832 2600000, Website: www.vedantalimited.com

Registered Office: Vedanta Limited, 1st Floor, 'C' Wing, Tata 95 Corporate Avenue, 5th Phase, Chhatrapati Sambhaji Nagar, Mumbai 400001, Maharashtra, India.
TIN: 111204200010002 000000



sesa goa iron ore

Ref No. VAB/ENV/2024-25/43

28/10/2024

To,
Block Development Officer
1st Floor, Govt Complex Building,
Bicholim, Goa-403504

Subject: Submission of Environment Clearance copy

Sir,

We would like to inform your good office that we have received environment clearance for our expansion project for Value added Business at Vedanta Ltd. Amona - Navelim Goa vide EC identification No EC24A1003GA5281560N dated 18/10/2024. We are submitting herewith the copy of Environmental Clearance for your reference.

Thanking you,

Yours faithfully,

For Vedanta Limited - Value Added Business


Saptesh Sardesai


VAB/Value Added Business
Vedanta Ltd. Amona, Goa

VEDANTA LIMITED
Sesa Goa Iron Ore - Goa (Sesa - 21502) (Vedanta, India) Private Ltd. (MPLD) India
VAB/ENV/2024-25/43 - Ref No. VAB/ENV/2024-25/43

Subsidiary: Vedanta Iron Ore - Goa (Sesa - 21502) (Vedanta, India) Private Ltd. (MPLD) India
VAB/ENV/2024-25/43 - Ref No. VAB/ENV/2024-25/43



sesa goa iron ore

Ref No. VAB/ENV/2024-25/44

28/10/2024

To,
Sankhali Municipal Council
Dessai Nagar,
Sankhali,Goa- 403505

Subject: Submission of Environment Clearance copy

Sir,

We would like to inform your good office that we have received environment clearance for our expansion project for Value added Business at Vedanta Ltd, Amora – Navellim Goa vide EC Identification No EC24A1001GA5281560N dated 18/10/2024. We are submitting herewith the copy of Environmental Clearance for your reference.

Thanking you,

Yours faithfully,

For Vedanta Limited – Value Added Business



Saptesh Sardesai



CEO Value Added Business
Vedanta Ltd, Amora, Goa

VEDANTA LIMITED
Sesa Goa Iron Ore, Sesa Mine, 20 EDC Complex, Ponda, Sesa, Goa - 403 505, India
T: +91 922 2000000 | Website: www.vedantaltd.com

Registered Office: Vedanta Limited, 24 Floor, 17 Ring Road, 101, Laxmi Nagar, Andhrapur, Hyderabad, India - 500081, Hyderabad, India
CIN: L24999GJ2005PLC000004



sesa goa iron ore

Ref No. VAB/ENV/2024-25/45

28/10/2024

To,
Amona Panchayat,
Bicholim-Goa-403107

Subject: Submission of Environment Clearance copy

Sir,

We would like to inform your good office that we have received environment clearance for our expansion project for Value added Business at Vedanta Ltd. Amona – Navelim Goa vide EC Identification No EC24A1001GAS281560N dated 18/10/2024. We are submitting herewith the copy of Environmental Clearance for your reference.

Thanking you,

Yours faithfully,

For Vedanta Limited – Value Added Business


Sapresh Sardesai

CEO-Value Added Business
Vedanta Ltd. Amona, Goa



VEDANTA LIMITED
Sesa Goa Iron Ore - Sesa Goa, PO Box 2000, Sesa, Goa - 403107, India
T: +91 9822 222222 | Website: www.vedantalimited.com

Registered Office: Vedanta Limited, Plot No. 27, Sesa, PO Box 2000, Sesa, Goa - 403107, India
CIN: L1122GOA1234567890

Document Reference No.



sesa goa iron ore

Ref No. VAB/ENV/2024-25/46

28/10/2024

To,
Navelim Panchayat
Bicholim-Goa 403107

Subject: Submission of Environment Clearance copy

Sir,

We would like to inform your good office that we have received environment clearance for our expansion project for Value added Business at Vedanta Ltd. Amona – Navelim Goa vide EC identification No EC34A1001GAS281560N dated 18/10/2024. We are submitting herewith the copy of Environmental Clearance for your reference.

Thanking you,
Yours faithfully,
For Vedanta Limited – Value Added Business

Saptarshi Sardesai
CEO-Value Added Business
Vedanta Ltd. Amona, Goa

VEDANTA LIMITED
Sesa Goa Iron Ore - Value Added Business, P.O. Box 100, Bicholim, Goa - 403107, India.
T: +91 9322 090000 | Website: www.vedantaltd.com

Registered Office: Vedanta Limited, Plot No. 1, Ring Road, P.O. Box 100, Bicholim, Goa - 403107, India. | Contact: Bicholim, Goa - 403107, India. | Telephone: +91 9322 090000 | Website: www.vedantaltd.com

VEDANTA LIMITED



sesa goa iron ore

Ref No: VAB/ENV/2024-25/47

28/10/2024

To,
Chief Inspector of Factories and Boilers
Government of Goa
Inspectorate of Factories and Boilers
Atrinho, Panaji, Goa

Subject: Submission of Environment Clearance copy

Sir,

We would like to inform your good office that we have received environment clearance for our expansion project for Value added Business at Vedanta Ltd. Amona – Navelim Goa vide EC Identification No EC24A1001GA528156ON dated 18/10/2024. We are submitting herewith the copy of Environmental Clearance for your reference.

Thanking you,
Yours faithfully,
For Vedanta Limited – Value Added Business

Saptesh Sardesai
CEO-Value Added Business
Vedanta Ltd. Amona, Goa

VEDANTA LIMITED
Vedanta Limited, Plot No. 10, Sector 10, Gandhinagar, Panaji, Goa - 401 012, India
T: +91 832 2660001, Website: www.vedantalimited.com

Registered Office: Vedanta Limited, Plot No. 10, Sector 10, Gandhinagar, Panaji, Goa - 401 012, India
CIN: L22209GJ0001902000

Website: www.vedanta.com

Annexure XXVI
Digital display board

Digital Display Board

