

Ref No. VAB/ENV/22-23/07

Date: 30/05/2022

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: 1st six-monthly compliance report to the conditions of Environment Clearance [File No: IA-J-11011/946/2007-IA.II(I)] for M/s. Vedanta Limited (Formerly Sesa Goa Ltd.)

Reference:

1. File no.: IA-J-11011/946/2007-IA.II(I) dated 24/01/2022
2. Amendment in Environment Clearance from MOEF vide letter dated 14th March, 2022

Sir,

With reference to the above, please find enclosed herewith:

1st six monthly compliance report to Environment Clearance [File No: IA-J-11011/946/2007-IA.II(I)] dated 24/01/2022 for the period **October 2021 to March 2022** for M/s. Vedanta Limited (Formerly Sesa Goa Ltd.). Project name: Up-Gradation of Blast Furnaces (BF) to enhance the production capacity of BF-1 & 2 from 2,92,000 TPA to 3,50,000 TPA, BF-3 from 5,40,000 TPA to 6,50,000 TPA, setting up of additional oxygen plant, installation of ductile iron pipe plant of 3,00,000 TPA capacity, 4 additional met coke ovens, setting up of Fe-Si plant of 5,000 TPA capacity at Amona and Navelim villages, Bicholim taluka, North Goa district, Goa. The annexures are enclosed along with the compliance status report.

Thanking you

Yours faithfully,

VEDANTA LIMITED
Sesa Goa iron ore - Sesa Ghor, 20 EDC Complex, Patto, Panaji, Goa - 403 001, India
T : +91 0832 2460600 Website: www.sesagoaironore.com

For Vedanta Limited-Value Added Business



Saptesh Sardesai

CEO- Value added Business

Cc: Member Secretary, GSPCB, CPCB (SZO)

Compliance Report to

Environmental Clearance File No: IA-J-11011/946/2007-IA.II(I)

(Period: October 2021 to March 2022)

Project Name: Up-Gradation of Blast Furnaces (BF) to enhance the production capacity of BF-1 & 2 from 2,92,000 TPA to 3,50,000 TPA, BF-3 from 5,40,000 TPA to 6,50,000 TPA, setting up of additional oxygen plant, installation of ductile iron pipe plant of 3,00,000 TPA capacity, 4 additional met coke ovens, setting up of Fe-Si plant of 5,000 TPA capacity at Amona and Navelim villages, Bicholim taluka, North Goa district, Goa.

A. Specific Conditions		
Sr. no.	Specific conditions	Compliance status
i.	The project proponent shall abide by all orders and judicial pronouncements, made from time to time in case no. 47 of 2013 before the Hon'ble National Green Tribunal, Case No. 881/2017 in Hon'ble High Court of Goa; Case No. 24/2015 before the Hon'ble District Court, Mapusa.	Noted.
ii.	Green Belt shall be developed in 54 hectares of land (33.5 % of total land) with tree density of 2500 trees per ha by 31/12/2022 all along the periphery of the project site. This shall include gap filling which shall be done in existing green belt developed area wherever tree density is less than 2500 trees per ha. This shall include green belt development within the site with a width of 25 meters towards the Amona village and Navelim village located a distance of 0.32 km and 0.05km from the project site respectively.	33.5% (54 hectares) of land within VAB premises has been marked for green belt development. There are around 3,00,000 nos. of plants available in the green belt area. During the monsoon season, i.e., from June to September 2022, it is planned to carry out gap filling in our green belt in both Amona and Navelim villages. It is also proposed to carry out plantation in both Amona and Navelim villages outside our boundary. The details of the plantation will be communicated to the ministry in our next six-monthly compliance report.
iii.	The recommendations of the approved Site-Specific Conservation Plan / 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.	Approved wildlife management plan has been submitted to State Forest Department along with request to raise demand note towards implementation of the same. Attaching annexure-I with communications to State Forest Department.
iv.	The project proponent shall comply with the following points by on (or) before 31/05/2022 as committed below by the proponent, failing which, GSPCB shall initiate legal action against the proponent under the relevant provision of the Environment (Protection) Act, 1986. Further, compliance status in this regard shall be submitted to the concerned Regional Office of the MoEF&CC along with the six-monthly compliance report.	Black topping of internal roads through concreting or bitumen is in progress. Out of 6.38 kms, road black topping of 4 kms length is completed till 31 st March, 2022. Attaching annexure-II: photo showing black topping of the road.
	a. 6.38 km internal plant road shall be black topped or concreted by April 2022. b. All the stored slag shall be disposed of by May 2022 and the covered storage shed for slag shall be put in place by 31st May, 2022.	All the stored slag has been disposed to cement industries. Kindly find below last six months slag generation and disposal details:

		<table><tr><th>Sr. no.</th><th>Month</th><th>Slag generation quantity (MT)</th><th>Slag disposal quantity (MT)</th></tr><tr><td>1.</td><td>October 2021</td><td>27,164</td><td>10,844.05</td></tr><tr><td>2.</td><td>November 2021</td><td>27,494</td><td>8,649.6</td></tr><tr><td>3.</td><td>December 2021</td><td>28,553</td><td>36,151.94</td></tr><tr><td>4.</td><td>January 2022</td><td>23,447</td><td>77,052.22</td></tr><tr><td>5.</td><td>February 2022</td><td>26,798</td><td>20,999.01</td></tr><tr><td>6.</td><td>March 2022</td><td>24,778</td><td>69,816</td></tr><tr><td></td><td>Total</td><td>158,234</td><td>223,512.82</td></tr></table>	Sr. no.	Month	Slag generation quantity (MT)	Slag disposal quantity (MT)	1.	October 2021	27,164	10,844.05	2.	November 2021	27,494	8,649.6	3.	December 2021	28,553	36,151.94	4.	January 2022	23,447	77,052.22	5.	February 2022	26,798	20,999.01	6.	March 2022	24,778	69,816		Total	158,234	223,512.82
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	c. There are 18 sites of archaeological importance in the study area. Requisite NOC from the concerned competent authority shall be obtained by the proponent and submitted to the Ministry on (or) before 31/05/2022.	The construction of storage shed for slag is in progress. We have applied for NOC from competent authority and expecting the grant shortly. Attaching annexure-III as communications pertaining to NOC application.																																
	d. Wind Shield for control of graphite particle emissions shall be provided by March 2022.	Installation of 260 meters of windshield has been completed along the plant boundaries towards Amona side for control of graphite particle emissions. Attaching annexure-IV as picture of newly installed windshield.																																
v.	Ductile Iron (DI) plant shall have the following provisions: a. Wet scrubbers for Volatile Organic Compounds in annealing furnace. b. Bag filter for Zn coating and Mg converter area. c. Wet scrubbers in paint and bitumen coating area. d. Bag Filter in Cement lining area. e. PTFE dipped bags shall be used in the plant. f. PM emissions from BF in Zinc coating area shall be 5 mg/Nm3. g. ETP with recycling facility shall be included. All scrubber effluent shall be treated in ETP.	Noted and shall be ensured during project phase of ductile iron pipe plant as part of detailed Engineering.																																
vi.	Parking area for trucks/dumpers shall be provided within the plant. No truck/dumper shall be parked outside the plant premises.	Parking area for trucks/dumpers is provided inside the plant premises. No company truck/ dumper is parked outside the plant premises.																																
vii.	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.	Various initiatives to conserve Navelim wetland have been initiated involving the community (Sasticho Akh Tenant Association) like cage fishing and back to farming. Through this project, interventions to conserve biodiversity, encourage agriculture and other alternative livelihood interventions are undertaken. It is also proposed to carry out plantation in surroundings of Navelim wetland in phased manner for which engagement with community is in progress for identification of land. Details of the same will be provided along with our next six-monthly compliance report.																																
viii.	Solid waste utilization ● Maximum 90 days of slag storage area shall be permitted inside the plant. ● PP shall recycle/reuse 100 % solid waste generated in the plant.	Slag is disposed continuously and is not allowed to be stored for more than 90 days. All the solid waste is recycled/ reused except oil-soaked cotton waste and bio medical waste which are incinerated.																																

	<ul style="list-style-type: none"> Used refractories shall be recycled as far as possible. 	Used refractories are recycled or reused in road construction purpose.
ix.	Sinter Plant shall be equipped with sinter cooler waste recovery system to generate process steam or power.	Sinter cooler waste recovery system is already available at sinter plant.
x.	<p>BF3 shall be equipped with stove waste heat recovery, cast house and stock house ventilation system, slag granulation facility, Dry Gas Cleaning Plant. Top Recovery Turbine shall be installed during next revamping of BF3.</p> <p>BF1 & 2 shall be equipped with stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility. Dry Gas Cleaning Plant shall be installed during next revamping of BF1 and BF2.</p>	<p>Blast furnace 3 is already equipped with stove waste heat recovery, cast house and stock house ventilation system, slag granulation facility and dry gas cleaning plant. Top Recovery Turbine installation shall be taken up during revamping.</p> <p>Blast Furnace 1 and Blast Furnace 2 is 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.</p>
xi.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.	Performance test of the air pollution control systems is in progress.
xii.	Submerged Arc Furnace shall be of closed type with 4th hole extraction system.	Noted. This shall be taken up during project phase.
xiii.	Particulate matter emissions from stacks shall be less than 30 mg/Nm ³ . Necessary retrofitting work shall be carried out in Air Pollution Control Devices (APCDs) of old plant to reduce PM emissions to less than 30 mg/Nm ³ within two years from the date of EC.	New baghouse has been proposed for Blast Furnace 1 and Blast Furnace 3 baghouse shall be upgraded.
xiv.	AAQ at Mosque and Siddhartha Caves archaeological sites shall be monitored once in a month as per the CPCB norms.	Ambient air monitoring is being done once a month at the Mosque and Siddhartha Caves archaeological sites at Tar Surla and the reports are submitted monthly to Goa State Pollution Control Board. Attaching annexure-V as the ambient air monitoring reports of both archaeological sites for the month of February 2022 and March 2022.
	02 manual ambient air quality monitoring stations within the plant shall be replaced with one CAAQMS in addition to the 03 CAAQMS presently installed.	Location for new Continuous Ambient Air Quality Monitoring System (CAAQMS) will be identified in consultation with Goa State Pollution Control board (GSPCB) and the new CAAQMS will be installed.
	Manual monitoring as done presently shall be continued and Benzo Amino Pyrene (BaP) shall be monitored manually as per CPCB norms.	Benzo Amino Pyrene (BaP) is being monitored monthly and reports are being submitted monthly to GSPCB. Attaching annexure VI as BaP monitoring data from October 2021 to March 2022.
	One manual air quality monitoring station shall be established towards Amona and Navelim villages and ambient air quality monitored as per CPCB norms.	For the installation of one AAQMS towards Amona and Navelim villages, we have requested GSPCB for providing the location of installation.
xv.	Water requirement for the plant shall be met from Mandovi River and Valvonti river. Ground water abstraction is not permitted.	No ground water is used for process. Water from Mandovi and Valvonti river is used for operation purposes for which required permissions have been obtained.
xvi.	All internal and connecting roads to the Highway shall be black topped/ concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.	The black topping of internal roads of 6.38km is in progress. The connecting roads to the highway have been black-topped.
xvii.	<p>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.</p> <p>Project proponent shall periodically monitor the riverine water</p>	Riverine water quality is being monitored and reports are submitted to GSPCB every month. Attaching annexure VII as riverine water quality reports.

	quality and report shall be submitted along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	
xviii.	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.	The Dust Extraction Systems (DES) have been provided for coal charging and baghouses with hoods have been provided for tapping of metal. New baghouse has been proposed for Blast Furnace 1 and Blast Furnace 3 baghouse shall be upgraded.
xix.	Additional Filter beds, arrester wall shall be provided along the storm water drainage for settlement of suspended particles and to prevent siltation.	Filter beds and arrester wall are provided in the storm drains and these storm drains are desilted every year before monsoon. The capacity of the final settling pond has been increased from 650 m ³ to 1200 m ³ during March 2022. Additional boulder wall has been provided to the main settling pond.
xx.	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.	The monsoon management plan has been prepared and implemented. Desilting of all the settling ponds and drains has been done.
B. General conditions		
I. (i).	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. (i).	II. Air quality monitoring and preservation: (i) The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS 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.	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 quarterly.
ii.	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.	Six Ambient Air Quality Monitoring Stations (AAQMS) are present and monthly air monitoring is done. Reports are being submitted before 15 th of every month to Goa State Pollution Control Board (GSPCB).
iii.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	All process stacks have been provided with sampling facility. Quenching tower is not a source of process emissions and are provided with grid arresters.
iv.	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.	Baghouses, Electro Static Precipitators (ESPs), Dust Extracting Systems (DESSs), rain guns, fog cannons, windshields, road sweeping machines are present to control air pollution.
v.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Differential pressure measurement is available across bags to detect leakage. Compressed Air puffing arrangement is available for mechanized cleaning.
vi.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	For road cleaning, road sweeping machines are deployed..

vii.	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.	All the iron ore fines, coal and coke fines, lime fines and such other fines are reused in the sinter plant to produce sinter.
viii.	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Raw material carrying trucks is always ensured for tarpaulin covering whenever plying outside premises.
ix.	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).	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. There is no possibility of occurrence spillage of coke during normal operations.
x.	Land-based APC system shall be installed to control coke pushing emissions.	Hoods lined with pyro-block modules are provided on hot coke car for control of emissions.
xi.	Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	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.
xii.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Windshield has been provided at the boundary of the plant. There are 6 nos. of rain guns in the raw material yard for sprinkling of water to prevent generation of fugitive dust.
xiii.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Tunnels are not present at our plant. For motor houses and oil storage rooms, proper ventilation system has been provided.
III (i)	III. 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 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Continuous Effluent Monitoring Systems are present at our plant and are connected to GSPCB and CPCB. These are calibrated periodically.
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	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 October 2021 as a part of post-monsoon ground water study. The reports are enclosed herewith as Annexure VIII for your reference.
iii.	The project proponent shall provide the ETP for coke oven to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time as amended from time to time;	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.
iv.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	We have three Sewage Treatment Plants (STPs) for current operations for treatment of domestic wastewater, however, new STP shall be installed during construction phase of expansion project.

v.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Garland drains and catch ponds have been made along the stock piles to prevent water pollution during rainy season.
vi.	Tyre washing facilities shall be provided at the entrance of the plant gates.	Wheel washing system is installed at the entrance of our plant and works every day. Attaching annexure-IX as pictures of the installed wheel washing system.
vii.	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Water meters have been installed at the inlet of all the processes.
IV. (i).	IV. Noise monitoring and prevention i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Noise pollution is monitored once every three months. Attaching annexure-X as noise monitoring reports of November 2021 and February 2022.
V (i)	V. 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.	In current operations, 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%.	Gas flaring restricted to < 1% shall be implemented, except for during any power plant shutdown.
iii.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	Solar power generation system is being explored for overall solar potential and shall be accordingly taken up.
iv.	Provide LED lights in their offices and residential areas.	Noted. LED lights are provided.
v.	Ensure installation of regenerative/recuperative type burners on all reheating furnaces.	Reheating furnaces are not present at our plant as of now, hence, regenerative type burners are not required to be installed.
VI	Waste management i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	Oil collection pits have been provided in oil storage rooms to collect and reuse/recycle spilled oil.
	ii. Kitchen waste shall be composted or converted to biogas for further use.	Kitchen waste is treated in composting unit and is recycled for further use.

VII	Green	Belt	GHG emissions inventory is prepared for the plant. Saplings shall be planted during monsoon of 2022. The list of programs for reduction of GHG emissions is as follows:	
	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.	Sr. no	Description	
		1	Increasing clean power generation in Waste Heat Recovery Power Plant through turbine upgradation.	
		2	Coke drying by using waste heat recovery from hot air of sinter cooler	
		3	Oxygen enrichment in Blast furnaces.	
		4	Replacing old low efficiency motors with IE4 super premium efficiency motors	
		5	Replacing old pumps with high efficiency pumps	
		6	Installing VFD's for several compressors, pumps and fans.	
		VIII (i)	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.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is implemented.
ii.	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.	Heat stress analysis for the workmen who work in high temperature work zone has been carried out and proper Personal Protection Equipment (PPE) is provided always.		
iii.	iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Health surveillance has been done in Feb-March 2022.		
IX (i)	Environment	Management	Noted.	
	(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.			
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.	The company has a Health, Safety and Environment policy in place. We are ISO 14000:2015 certified (Environment Management System). Also, there is a system in place for tracking and reporting of all the statutory compliances. Health, Safety and Environment policy attached herewith as annexure XI.		
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.	Separate Environment cell exists both at project as well as head quarter. Separate budget is allocated towards environmental measures at site. Following are the expenditure from Oct 2021 to March 2022:		
		Sr. No.	Description	Expenditure in Rs

		1	Dust extraction system	1,21,81,839
		2	Black topping of roads	2,58,84,950
		3	Windshield	37,82,823
		4	Environmental Monitoring	5,61,550
		5	Green belt development	2,07,370
		6	Operation of STP	2,08,000
		7	Dust suppression through tankers	22,61,495
		8	Dust suppression through Road sweeping machine	4,46,925
				4,55,34,952
X (i)	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.	The environmental clearance has been advertised on 30th January 2022 in these two local newspapers: Bhaangarbhuin, in Konkani language and The Goan in English language. Attaching Annexure XII as newspaper cutting of the advertisements.		
ii.	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.	Copies of environmental clearance were submitted to local bodies including Panchayats and Municipal councils.		
iii.	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.	Noted.		
iv.	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.	Ambient air monitoring and stack emission monitoring is being done in the plant and the results are being displayed continuously on the digital display boards at our gates. Attaching annexure XIII as the picture of digital display board installed at one of our gates.		
v.	v. 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.	Noted and is implemented.		
vi.	vi. 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	Noted and is implemented.		
vii.	vii. 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		

viii.	viii. 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
ix.	ix. 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
x.	x. 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
xi.	xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xii.	xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
xiii.	xiii. 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
xiv.	xiv. 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: Communications to State Forest Department:

Ref No. VAB/ENV/2021-22/54

Date: 29/01/2022

To,
Chief Wildlife Warden,
Goa Forest Department,
Swami Vivekanand Rd,
Altinho, Panaji,
Goa - 403001

Subject: Request for issuing of debit notes**Reference:**

1. Letter dated 21/10/2021
2. Wild Life Conservation Plan (WLCP) vide letter no. 1-576(PART)WL&ET (N)/2021-2022/554 dated 28/05/2021

Sir,

We would like to inform you that we at Value added Business, Vedanta limited, Amona, Navelim, Goa have been granted Environmental Clearance (EC) for our expansion project vide EC Identification No. EC22A008GA145461 dated 24/01/2022.

With reference to the approved Wild Life Conservation Plan (WLCP) vide letter no. 1-576(PART)WL&ET (N)/2021-2022/554 dated 28/05/2021, we would like to request your good office to raise the demand note for the total amount of Rs. 1,00,00,000/- (INR One Crore Only) towards implementation of the WLCP so that the forest department starts the implementation of the same as proposed in the approved plan.

Attaching the approved wildlife management plan and financial support details for reference.

Kindly consider above mentioned request.

VEDANTA LIMITED

Sesa Goa iron ore: Sesa Ghor, 20 EDC Complex, Patto, Panjim, Goa - 403 001, India
T +91 0832 2460600 | Website: www.sesagoironore.com

Registered Office:

Vedanta Limited, 1st Floor, C wing, Unit 105, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai 400093, Maharashtra, India.
CIN: L13209MH1965PLC291394

Pr. Chief Conservator of Forests
31/01/2022
Altinho, Panaji - Goa 403 001

Thanking you

Yours faithfully

For Vedanta Limited-Value Added Business


Saptoosh Sardesai

Director- Value added Business

VEDANTA LIMITED

Sesa Goa iron ore: Sesa Ghor, 20 EDC Complex, Patto, Panjim, Goa -- 403 001, India
T: +91 0832 2460600 | Website: www.sesagoaironore.com

Registered Office:

Vedanta Limited, 1st Floor, 'C' wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai 400093, Maharashtra, India.
CIN: L13209MH1965PLC291394



sesa goa iron ore

To,
Chief Wild Life Warden
State Forest Department,
Forest head Office, Altinho, Panaji,
Goa

21/10/2021

Sub: Wild Life Conservation plan for obtaining Environment Clearance reg.

Ref: No. 1-576(PART)WL&ET (N)/2021-2022/554 DATED 28/05/2021

Sir,

We thank you for approving the proposal for Wild Life Conservation Plan (WLCP) submitted by us as part of obtaining Environment Clearance (EC) for our existing plants & proposed projects at Value Added Business located in Amona and Navelim villages of North Goa District.

In this connection, we would like to request your good office to raise the demand note for the total amount of Rs. 1,00,00,000/- (INR One Crore only) towards implementation of the WLCP so that the forest department starts the implementation of the same as proposed in the approved plan.

Thanking you

Yours faithfully

Saptesh Sardesai
Director- Value Added Business

Attached: Approval letter of WLCP for ready ref.

Adle
26/10/2021
Office of the
Pr. Chief Conservator of Forests
Altinho, Panaji - Goa 403 001



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)

No. 1-576(PART)WL&ET (N)/2021-2022/554

28th May, 2021

7 Jyaistha, 1943 (Saka)

To
Vedanta Limited,
Village Amona/Navelim,
Bicholim- Goa.

Sub: - Wildlife Conservation Plan for obtaining Environment
Clearance- Reg.

Sir,

With reference to your office communication no. VAB/ENV/21-22/03 Dt.06-05-2021 and in pursuance of MoEF&CC's letter no. IA-J-11011/946/2007-IA-II(I) Dt. 06-03-2019 on the above concerning subject I am directed to convey the approval of Chief Wildlife Warden on the Wildlife Conservation Plan submitted by Vedanta Ltd. for up- gradation of Blast Furnaces with following terms and conditions.

1. The Wildlife Conservation Plan prepared by the Vimta Labs as per the terms of reference (ToR) given by MoEF&CC has been approved to obtain environment clearance for the expansion project.
2. The plan does not permit any use of any forest land or part of Wildlife sanctuaries and National Park and ESZ, User agency shall take prior approval as per Forest Conservation Act, 1980 if any forest land is involved.
3. The operation shall be carried in an efficient way whereas in any extent wildlife habitat is not disturbed.
4. There should not be any high sound/ noise pollution which can induces fear which can lead to force species/ animals to abandon their natural habitat.
5. All the activities prescribed in the Plan to be taken up by the user agency in consultation with Wildlife & Eco- tourism (N), div, Goa Forest Department.

Wildlife Conservation Plan

TABLE-13
FINANCIAL SUPPORT FOR WILD LIFE CONSERVATION PLAN

Sr.N o	Plan of Operations	Unit Cost	First Year		Second Year		Third Year		Fourth Year		Five Year		Cumulative	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	Establishment of waterholes for wildlife in the buffer area	2.00 lakh	2 Nos	4.00	2 Nos	4.00	2 Nos	4.00	2 Nos	4.00	2 Nos	4.00	10 nos	20.00
2	Providing Rescue Van to the Forest Department	20.00 Lakh	1 No	20.00									1	20.00
3	Providing rescue cages and rescue equipments to the forest Department	LS	LS	2.00	LS	2.00	LS	2.00	LS	2.00	LS	2.00	Total	10.00
4	Providing Trap Cameras to analyze the movement of Wild animals	20,000 /no.	5 Nos	1.00	5 Nos	1.00	5 Nos	1.00	5 Nos	1.00	5 Nos	1.00	25 nos	5.00
5	Financial support to the department for conducting awareness campaigns for various stakeholders	40,000 /camp	5 Nos	2.00	5 Nos	2.00	5 Nos	2.00	5 Nos	2.00	5 Nos	2.00	25 nos	10.00
6	Financial support to the department for celebrating Wildlife week and sponsoring the prizes for the competitions	3.00/ year	LS	3.00	LS	3.00	LS	3.00	LS	3.00	LS	3.00	LS	15.00
7	Veterinary support for the rescue squad in managing man-animal conflicts	LS	LS	4.00	LS	4.00	LS	4.00	LS	4.00	LS	4.00	LS	20.00
	Total			36.00		16.00		16.00		16.00		16.00		100.00

Phy-Physical, Fin-Financial, LS-Lumpsome

Ref No. VAB/ENV/2021-22/96

Date: 16/02/2022

To,
Chief Wildlife Warden,
Goa Forest Department,
Swami Vivekanand Rd,
Altinho, Panaji, Goa - 403001

Subject: Request for issuing of debit notes

Reference:

1. Letter no. VAB/ENV/2021-22/54 dated 29/01/2022
2. Wild Life Conservation Plan (WLCP) vide letter no. 1-576(PART)WL&ET (N)/2021-2022/554 dated 28/05/2021

Sir,
With respect to above mentioned reference letter vide no. VAB/ENV/2021-22/54 dated 29/01/2022, we would like to request your good office that kindly issue debit notes towards implementation of the WLCP so that the implementation of the same as proposed in the approved plan can start.

Kindly consider above mentioned request.

Thanking you
Yours faithfully


For Vedanta Limited-Value Added Business


Saptesh Sardesai

Director- Value added Business

VEDANTA LIMITED

Sesa Goa iron ore: Sesa Ghor, 20 EDC Complex, Patto, Panjim, Goa - 403 001, India
T +91 0832 2460600 | Website: www.sesagoaironore.com


Office of the
Pr. Chief Conservator of Forests
Altinho, Panaji - Goa 403 001

Letter No: VAB/ENV/21-22/100

Date: 28/03/2022

To,

Chief Wildlife Warden,
Goa Forest Department,
Swami Vivekanand Rd,
Altinho, Panaji, Goa - 403001

Sub: - Wild Life Conservation Plan for obtaining Environmental Clearance Reg..

Reference:

1. Letter No. 1-576-WL&ET(N)/2021-2022/3965 dated 28/02/2022 received by our office on 07/03/2022
2. Our letter no. VAB/ENV/2021-22/96 dated 16/02/2022
3. Our letter no. VAB/ENV/2021-22/54 dated 29/01/2022
4. Our letter dated 21/10/2021
5. Wildlife Conservation Plan (WLCP) vide letter no. 1-576(PART)WL&ET (N)/2021-2022/554 dated 28/05/2021

Dear Sir,

With respect to your letter numbered 1-576-WL&ET(N)/2021-2022/3965 dated 28/02/2022 received by our office on 07/03/2022, we would like to state that Ministry of Environment, Forest, and Climate Change (MOEFCC) issued Terms of Reference (TOR) numbered IA-J-11011/946/2007-IA.II(I) dated 6/03/2019 for carrying out Environmental Impact Assessment (EIA) for expansion project of Vedanta Ltd

VEDANTA LIMITED

Ministry of Environment, Forest and Climate Change, Goa-403 001
T: 021 237 501 2366 F: 021 237 501 2368 Web: www.sesagoironore.com

Registered Office: Vedanta Limited, 4th Floor, C Wing, Unit 403, Corporate Avenue, Andheri West, Mumbai - 400 053
Tel: 022-24441100 Fax: 022-24441101

Prk
Office of the
Pr. Chief Conservator of Forests
Altinho, Panaji - Goa 403 001
28/03/2022

at Amona- Navelim Goa. One of the conditions of TOR was to prepare wildlife management plan and approval of the Wildlife conservation plan by Chief Wildlife Warden of the State Government

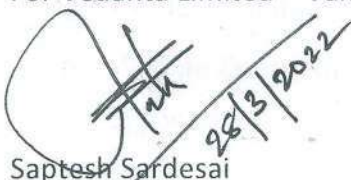
The Wildlife Conservation plan was prepared and was approved by Chief Wildlife Warden, Govt. Of Goa through letter numbered 1-576(PART)WL&ET (N)/2021-2022/554 dated 28/05/2021. The said Wildlife conservation plan was presented to Expert Appraisal Committee of (MOEFCC) towards expansion proposal of Vedanta Ltd at Amona- Navelim Goa. Based upon which MOEFCC has granted Environmental Clearance for Vedanta Unit at Amona- Navelim Goa (attached EC copy for reference)

Hence, we have requested your good office to raise demand note towards implementation of the Wildlife Conservation Plan.

Thanking you,

Yours faithfully,

For Vedanta Limited – Value Addition Business


28/3/2022

Saptesh Sardesai

Director Value Added Business

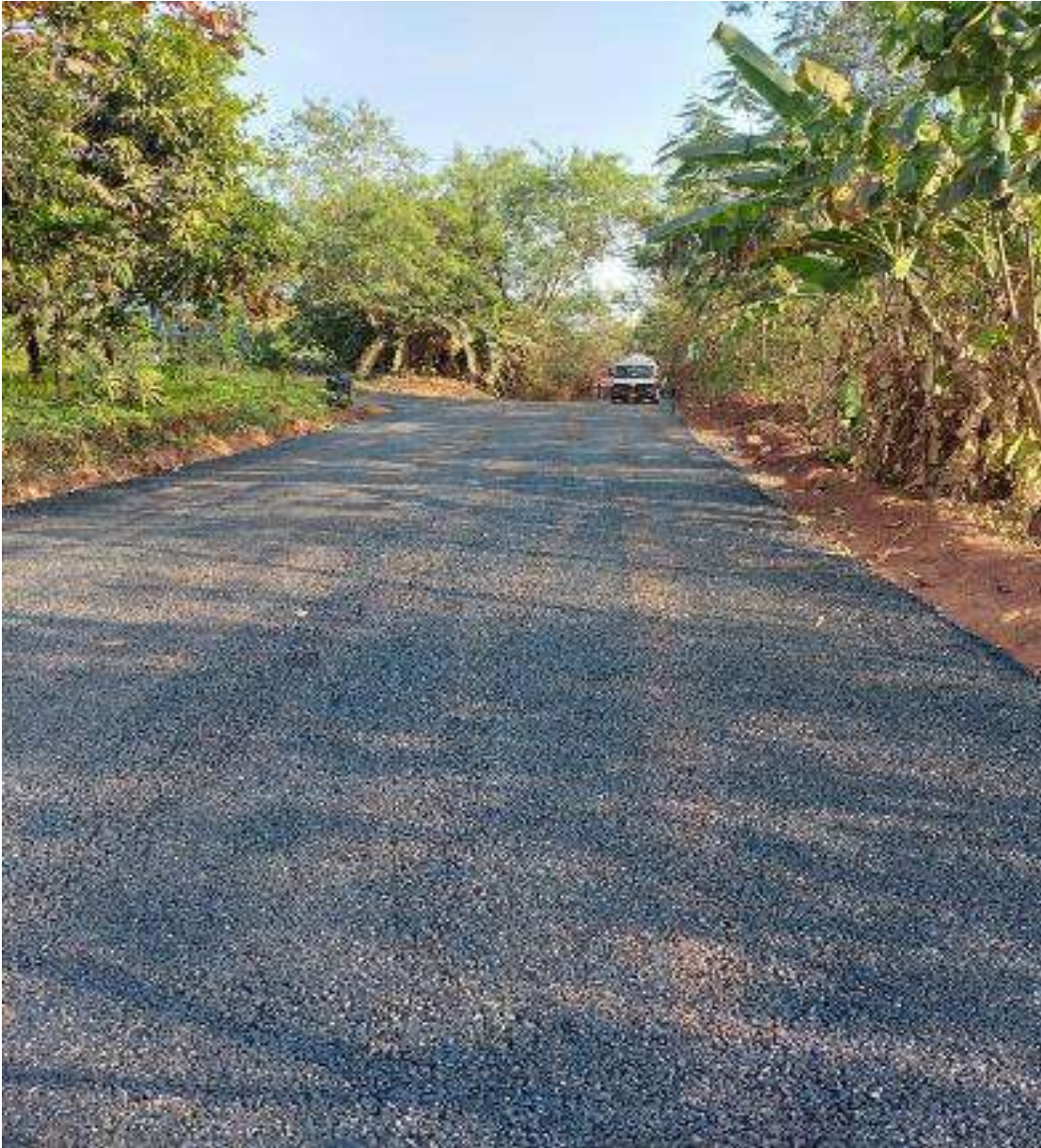
Vedanta Ltd

VEDANTA LIMITED

Value Added Business- Pig Iron Division, Amona- PO Marcela, Goa-403 107
T: 91-832 641 2160 F: 91-832 238 5235 288 Web: www.sesagoironore.com

Registered Office: Vedanta Limited, 1st Floor, 'C' wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai 400093 Maharashtra India
CIN: L12299MH1965PL1291701

Annexure II: Picture of black topped road:



Black topped road near oxygen plant.

Annexure-III: Communications regarding NOC from archaeology department:

Letter No: VAB/ENV/21-22/23

Date:-22/07/2021

To,
Director,
Directorate of Archives & Archaeology
Govt. of Goa

Sub: **NOC for our expansion Project at Amona-Navelim villages, Bicholim Taluka, North Goa District, Goa**

Madam,

We at Value added business of Vedanta Ltd are having Pig iron Plants , met coke division and 60MW power plant at Amona and Navelim villages. We are in the process of obtaining Environment Clearance for our expansion project within our existing boundaries.

During our EIA studies, we have observed that some of the state archaeological monuments namely Caves at Naroa , The Mosque and tank at Tar Surla are located at a distance of 1.9km and 1.5km respectively from the project site. Besides these we have also annexed other archaeological monuments within 10km vicinity of our plant.

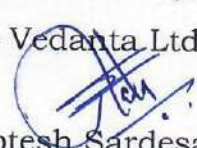
We carry out our operations with all the necessary safety and environmental safe guards there by taking care of our surroundings also. We would like to bring it to the notice of your good self that neither the existing operations nor the expansion activities (which are within the same existing boundary) will have any negative impact on the said sites.

We request you to grant us a No objection certificate for our project for submission to the MoEF and Cc, New Delh

Thanking You,

Yours Sincerely,

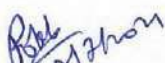
For Vedanta Ltd.


Saptesh Sardesai

(Director- Value Added Business, Amona)

✓ CC: The G.E.O, Goa Investment Promotion & Facilitation Board

VEDANTA LIMITED

Value Added Business, Met Coke Division, Navelim, PO Sanquelim, Bicholim, Goa-403 505
Tel +91-832 398 1400 | Fax +91-832 398 1575 | Web: www.sesagoironore.comRegistered Office: Vedanta Limited, 1st Floor, 'C' wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai 400093, Maharashtra, India.
CIN: L13209MH1965PLC291394

Annexure

List of protected monuments/sites within 10km distance from our plant:

1. The Mosque and Tank at Tar Surla (1.5 km, SE)
2. Caves at Naroa (1.9 km, SE)
3. Site of Gujir (2.2 km, N)
4. Site of Fortess at St. Estevam (3.2 km, WNW)
5. Fort of Sanquelim (4.4 km, N)
6. Temple of Saptakoteswar (5.9 km, WNW)
7. Fort Naroa (6.0 km, W)
8. Chapel of Our Lady of Monte (6.9 km, W)
9. Ruins of Brahmapuri (7.0 km, W)
10. Namzgah/ Idgah Mosque (7.1 km, NW)
11. Chapel of St. Xavier (7.5 km, W)
12. Church of St. Peter (7.9 km, W)
13. Old Goa Church (Approx. 8.0 km, W)
14. Caves at Mangueshi (8.2 km, SW)
15. Site of Ruins of Manguesh temple (8.3 km, SW)
16. Convent of St. Monica & Chapel (8.6 km, W)
17. Ruins of College of St. Populo (8.8 km, W)
18. Shri Saptakoteswar temple (10.6 km, SSE)

VEDANTA LIMITED

Value Added Business, Met Coke Division, Navelim, PO Sanquelim, Bicholim, Goa-403 505
Tel +91-832 398 1400 | Fax +91-832 398 1575 | Web: www.sesagoironore.com

Registered Office: Vedanta Limited, 1st Floor, 'C' wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai 400093, Maharashtra, India.
CIN: L13209MH1965PLC291394

Letter No: VAB/ENV/21-22/

Date: 16/08/2021

To,
The Director,
Directorate of Archives and Archeology
Government of Goa
Kind attention: **Shri Varad Sabnis**

Sub: - "NOC for our expansion project at amona navelim villages, Bicholim Taluka North goa district"

Reference: Our letter with Ref No: VAB/ENV/21-22/23 Dated 22/07/2021

Dear Sir,

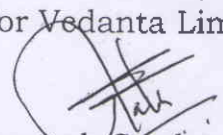
With reference to above letter and as discussed during your site visit on 12-08-2021, kindly find following enclosures to this letter with additional information about existing process and proposed expansion.

1. Annexure I: Details of current plants and processes
2. Annexure II: Details of proposed expansion/Diversification project.
3. Annexure III: Environment Management Plan

Kindly process our request for No Objection Certificate for our project for submission to the MoEF and CC, New Delhi, in connection with our EC application.


Thanking you,

Yours faithfully,
For Vedanta Limited - Value Addition Business


Saptesh Sardesai
Director - Value Added Business

VEDANTA LIMITED
Value Added Business, Pig Iron Division, Amona, PO Marcela, Goa-405 107
T -91-832 641 2160 F -91-832 238 5235 288 Web www.sesagoaironore.com

Registered Office: Vedanta Limited, 1st Floor, "C" wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai 400093, Maharashtra, India.
CIN: L13209MH1965PLC291394


Received on
Directorate of Archives & Archaeology
Panaji-Goa

Letter No: VAB/ENV/21-22/51

Date:-22/12/2021

To,
Director,

Directorate of Archives & Archaeology

Govt. Of Goa

Sub: NOC for our expansion Project at Amona-Navelim villages, Bicholim Taluka, NorthGoa District, Goa

Ref: 1. VAB/ENV/21-22/23 dated 22/07/2021

2. Site visit dated 12/08/2021

3. VAB/ENV/21-22/ dated 16/08/2021

Respected Sir,

With reference to above communication we request your good office to please grant us No objection certificate (NOC) for our project. Site inspection has been already carried out on 12.08.2021.

We at Value added business of Vedanta Ltd having operations at Amona and Navelim villages, are in the process of obtaining Environment Clearance for our expansion project within our existing boundaries.

We carry out our operations with all the necessary safety and environmental safe guards there by taking care of our surroundings also. We would like to bring it to the notice of your good self that neither the existing operations nor the expansion activities (which are within the same existing boundary) will have any negative impact on the said sites.

We request you to grant us a No objection certificate for our project for Submission to the MoEF and Cc, New Delhi

Thanking You,

Yours Sincerely,

For Vedanta Ltd.

Saptesh Sardesai

(Director- Value Added Business, Amona)

Budke
Received on
Directorate of Archives & Archaeology
Panaji-Goa

VEDANTA LIMITED

Value Added Business, Met Coke Division, Navelim, PO Sanquelim, Bicholim, Goa-403 505
Tel: 91-832 398 1400 Fax: +91-832 398 1575 Web: www.sesagoironore.comRegistered Office: Vedanta Limited, 1st Floor "C" wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai-400093, Maharashtra, India.
CIN: L13209MH11965PLC291394

Ref No. VAB/ENV/2022-23/01

Date: 12/04/2022

To,
Director,
Directorate of Archives and Archaeology,
Govt. of Goa

Subject: Submission of Environmental Impact Assessment (EIA) report

Reference:

1. Inspection at Value Added Business, Vedanta Limited, Amona, Goa dated 05/04/2022
2. Our letter no. VAB/ENV/2021-22/23 dated 22/07/2021
3. Our letter no. VAB/ENV/2021-22/ dated 16/08/2021
4. Our letter no. VAB/ENV/2021-22/51 dated 22/12/2021

Dear Sir,

With respect to the site inspection dated 05/04/2022 at Value Added Business, Vedanta Limited, Amona- Navelim, Goa pertaining to NOC from Archaeology authority, we are submitting herewith copy of Environmental Impact Assessment (EIA) report for reference as requested by the inspection team on the day of inspection.

Thanking you.

Yours faithfully

For Vedanta Limited- Value Added Business


Saptesh Sardesai

CEO- Value Added Business

VEDANTA LIMITED

Sesa Goa iron ore, Sesa Ghar, 20 EDC Complex, Patto, Panaji, Goa - 401 001, India
T +91 0832 2400000 / Website: www.vedantalimited.com

Registered Office

Vedanta Limited, 1st Floor, 'C' wing, Lane 101, Corporate Avenue, And Promoters, Chhatrapati Shivaji Maharaj (East), Mumbai 400097, Maharashtra, India
CIN: L1120MH201109PLC291394

SE
13/04/2022
Received on
Directorate of Archives & Archaeology
Panaji-Goa

Ref No. VAB/ENV/2022-23/05

Date: 06/05/2022

To,
The Director,
Directorate of Archives and Archaeology,
Govt. of Goa

Subject: NOC for our expansion project at Value Added Business, Vedanta Limited, Amona, Navelim, Goa

Reference:

1. Inspection at Value Added Business, Vedanta Limited, Amona, Navelim, Goa dated 05/04/2022
2. Our letter no. VAB/ENV/2021-22/23 dated 22/07/2021
3. Our letter no. VAB/ENV/2021-22/ dated 16/08/2021
4. Our letter no. VAB/ENV/2021-22/51 dated 22/12/2021

Dear Sir,

With reference to the above communication and the inspection done by your team on 05/04/2022 at Value Added Business, Vedanta Limited, Amona, Navelim, Goa, we would like to request your good office to please grant us No Objection certificate (NOC) for our project.


We at Value Added Business, Vedanta Ltd. having operations at Amona and Navelim villages have already obtained Environmental Clearance (EC) for our expansion project within our existing boundaries.

We request you to grant us an NOC for our project for submission to the MOEF&CC, New Delhi.

Thanking you.

Yours faithfully

For Vedanta Limited- Value Added Business


Saptesh Sardesai

CEO- Value Added Business

CC: The Secretary, Dept. of Archaeology, Govt. of Goa ✓

VEDANTA LIMITED

Sesa Goa iron ore: Sesa Ghor, 20 EDC Complex, Patto, Panjim, Goa - 403 001, India
T +91 0832 2460600 | Website: www.sesagoaironore.com

Registered Office:

Vedanta Limited, 1st Floor, 'C' wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai 400093, Maharashtra, India.
CIN: L13209MH1965PLC291394



Recd
6/5/22

Received on
Directorate of Archives and Archaeology
Panaji-Goa

Sensitivity: Internal (CS)

Annexure-IV: Picture of newly installed windshield:



Windshield at Blast Furnace 1 and 2 area

Annexure V: Archaeological sites ambient air monitoring data of February-22 and March-22

- Ambient air monitoring data of archaeological site 1: Near Siddhartha Caves, Surla:

Parameters	Unit	February- 2022 Results	March- 2022 Results	*N.A.A.Q.S.	Methods
PM 10	µg/m3	62.68	65.18	100.0	NAAQMS/36/2012-2013 Volume 1
PM 2.5	µg/m3	28.90	32.37	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m3	11.63	11.93	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m3	17.32	17.35	80.0	IS 5182 (Part VI) 2012
CO	mg/m3	0.14 (for 1 hour)	0.15***	4.0 for 1 hour	IS 5182 (Part X) 1999
Lead	µg/m3	< 0.01	< 0.01	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m3	< 20.0 (for 1 hour)	< 20.0***	180.0 for 1 hour	APHA Method 411 3rd Edition
Ammonia	µg/m3	< 14.0	< 14.0	400.0	APHA Method 401 3rd Edition
Benzene	µg/m3	< 0.14	< 0.14	5.0**	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m3	< 0.1	< 0.1	1.0**	IS 5182 (Part 12):2004
Arsenic	ng/m3	< 0.7	< 0.7	6.0**	NAAQMS/36/2012-2013 Volume 1

Nickel	ng/m3	< 6.0	< 6.0	20.0**	NAAQMS/36/2012-2013 Volume 1
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*N.A.A.Q.S- National Ambient Air Quality Standards

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

- Ambient air monitoring data of archaeological site 2: Near Mosque, Surla:

Parameters	Unit	February- 2022 Results	March- 2022 Results	*N.A.A.Q.S.	Methods
PM 10	µg/m3	59.47	63.48	100.0	NAAQMS/36/2012-2013 Volume 1
PM 2.5	µg/m3	27.23	31.27	60.0	NAAQMS/36/2012-2013 Volume 1
SO2	µg/m3	11.05	11.54	80.0	IS 5182 (Part II) 2012
NO2	µg/m3	16.14	16.69	80.0	IS 5182 (Part VI) 2012
CO	mg/m3	0.11 (for 1 hour)	0.13 (for 1 hour)	4.0 for 1 hour	IS 5182 (Part X) 1999
Lead	µg/m3	< 0.01	< 0.01	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m3	< 20.0 (for 1 hour)	< 20.0 (for 1 hour)	180.0 for 1 hour	APHA Method 411 3rd Edition
Ammonia	µg/m3	< 14.0	< 14.0	400.0	APHA Method 401 3rd Edition
Benzene	µg/m3	< 0.14	< 0.14	5.0**	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m3	< 0.1	< 0.1	1.0**	IS 5182 (Part 12):2004
Arsenic	ng/m3	< 0.7	< 0.7	6.0**	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m3	< 6.0	< 6.0	20.0**	NAAQMS/36/2012-2013 Volume 1

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

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

Annexure VI: Benzo Amino Pyrene (BaP) monitoring data from October-2021 to March-2022

Date	1. Near Amona gate	2. Opp. BSNL exchange	3. Near Dispatch gate	4. Compound wall towards Navelim	5. Near Sateri temple	6. Compound wall towards Maina
01-10-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
06-10-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
08-10-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
13-10-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
15-10-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
20-10-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
22-10-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

27-10-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
29-10-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
03-11-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
05-11-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
10-11-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
12-11-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17-11-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19-11-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
24-11-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
26-11-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
02-12-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
06-12-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09-12-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
13-12-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
16-12-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
20-12-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
23-12-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
27-12-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
30-12-21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
03-01-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
06-01-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
10-01-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
13-01-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17-01-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
20-01-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
24-01-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
27-01-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
31-01-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
03-02-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
07-02-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
10-02-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
14-02-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17-02-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
21-02-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
24-02-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
28-02-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
03-03-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
07-03-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
10-03-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
14-07-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17-03-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
21-03-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
24-03-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
28-03-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
31-03-22	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Annexure VII: Riverine water quality reports from October 2021 to March 2022:



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525,
Tel.: (02362) 223519 E-mail: info@gadark.in Website: www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.
Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + 91 9321312367

TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/10141	T.C. Date:	19/10/2021
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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 NAVEIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM - GOA.		
Letter Ref/Date	As per Dated 14/10/2021		
Lab Reference No.	GW/E/21/10141	Page No.	1 of 1
Sampling Done On	14/10/2021	Sample Received on	14/10/2021
Sample Collected By	GLPL	Analysis Period	14/10/2021 To 19/10/2021
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	—	6.74	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.9	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	4.2	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.5	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	27.8	—	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	70	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

K. V. Chitalkar

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

Note:

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4. Customer complaint register is available at laboratory.
5. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report

K. Bagatkar

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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.
Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + 91 9321312367

TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/10142	T.C. Date:	19/10/2021
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 14/10/2021		
Lab Reference No.	GW/E/21/10142	Page No.	1 of 1
Sampling Done On	14/10/2021	Sample Received on	14/10/2021
Sample Collected By	GLPL	Analysis Period	14/10/2021 To 19/10/2021
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

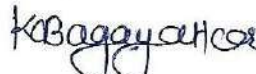
Parameters	Units	Test Result	*Limits	Methods
pH	—	6.72	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	5.0	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	4.0	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.3	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	64	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]


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5. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report



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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + 91 9321312367

TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/10218	T.C. Date:	03/11/2021
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 29/10/2021		
Lab Reference No.	GW/E/21/10218	Page No.	1 of 1
Sampling Done On	29/10/2021	Sample Received on	29/10/2021
Sample Collected By	GLPL	Analysis Period	29/10/2021 To 03/11/2021
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	6.84	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	5.0	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	4.4	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.5	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	27.8	---	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	84	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/10219	T.C. Date:	03/11/2021
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 29/10/2021		
Lab Reference No.	GW/E/21/10219	Page No.	1 of 1
Sampling Done On	29/10/2021	Sample Received on	29/10/2021
Sample Collected By	GLPL	Analysis Period	29/10/2021 To 03/11/2021
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	—	6.86	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.8	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	4.2	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.2	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	79	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

CHECKED BY

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/11113	T.C. Date:	19/11/2021
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 15/11/2021		
Lab Reference No.	GW/E/21/11113	Page No.	1 of 1
Sampling Done On	15/11/2021	Sample Received on	15/11/2021
Sample Collected By	GLPL	Analysis Period	15/11/2021 To 19/11/2021
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	6.94	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.6	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	6.4	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.4	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	27.7	---	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	94	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/11114	T.C. Date:	19/11/2021
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 15/11/2021		
Lab Reference No.	GW/E/21/11114	Page No.	1 of 1
Sampling Done On	15/11/2021	Sample Received on	15/11/2021
Sample Collected By	GLPL	Analysis Period	15/11/2021 To 19/11/2021
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	6.90	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.4	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	6.1	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.2	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	84	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

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TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/11117	T.C. Date:	02/12/2021
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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 NAVEIM VILLAGE AND SURVEY NO. 43/1, 44/4 & 44/5 OF AMONA VILLAGE, BICHOLIM – GOA.		
Letter Ref/Date	As per Dated 29/11/2021		
Lab Reference No.	GW/E/21/11117	Page No.	1 of 1
Sampling Done On	29/11/2021	Sample Received on	29/11/2021
Sample Collected By	GLPL	Analysis Period	29/11/2021 To 02/12/2021
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	7.04	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.8	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	6.8	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.7	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	27.8	---	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	84	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

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TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/11118	T.C. Date:	02/12/2021
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 29/11/2021		
Lab Reference No.	GW/E/21/11118	Page No.	1 of 1
Sampling Done On	29/11/2021	Sample Received on	29/11/2021
Sample Collected By	GLPL	Analysis Period	29/11/2021 To 02/12/2021
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	7.00	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.6	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	6.6	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.4	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	79	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.

Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/12121	T.C. Date:	20/12/2021
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 14/12/2021		
Lab Reference No.	GW/E/21/12121	Page No.	1 of 1
Sampling Done On	14/12/2021	Sample Received on	14/12/2021
Sample Collected By	GLPL	Analysis Period	14/12/2021 To 20/12/2021
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

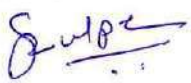
ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	7.11	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.8	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	4.5	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.2	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	27.6	---	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	94	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.


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TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/12122	T.C. Date:	20/12/2021
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 14/12/2021		
Lab Reference No.	GW/E/21/12122	Page No.	1 of 1
Sampling Done On	14/12/2021	Sample Received on	14/12/2021
Sample Collected By	GLPL	Analysis Period	14/12/2021 To 20/12/2021
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

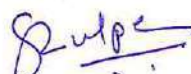
ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	7.07	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.6	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	4.3	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.1	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	84	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.


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TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/12131	T.C. Date:	04/01/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 30/12/2021		
Lab Reference No.	GW/E/21/12131	Page No.	1 of 1
Sampling Done On	30/12/2021	Sample Received on	30/12/2021
Sample Collected By	GLPL	Analysis Period	30/12/2021 To 04/01/2022
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		


ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	7.04	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.6	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	4.7	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.4	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	24.6	---	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	84	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.


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TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/21/12132	T.C. Date:	04/01/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 30/12/2021		
Lab Reference No.	GW/E/21/12132	Page No.	1 of 1
Sampling Done On	30/12/2021	Sample Received on	30/12/2021
Sample Collected By	GLPL	Analysis Period	30/12/2021 To 04/01/2022
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	7.02	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.2	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	4.5	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.2	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	70	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.


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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/E/22/01115	T.R. Date:	19/01/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 14/01/2022		
Lab Reference No.	GW/E/22/01115	Page No.	1 of 1
Sampling Done On	14/01/2022	Sample Received on	14/01/2022
Sample Collected By	GLPL	Analysis Period	14/01/2022 To 19/01/2022
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	6.92	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.5	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	5.2	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.4	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	27.7	---	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	84	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/E/22/01116	T.R. Date:	19/01/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 14/01/2022		
Lab Reference No.	GW/E/22/01116	Page No.	1 of 1
Sampling Done On	14/01/2022	Sample Received on	14/01/2022
Sample Collected By	GLPL	Analysis Period	14/01/2022 To 19/01/2022
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	6.90	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.4	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	5.0	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.2	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	79	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/E/22/01119	T.R. Date:	02/02/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 28/01/2022		
Lab Reference No.	GW/E/22/01119	Page No.	1 of 1
Sampling Done On	28/01/2022	Sample Received on	28/01/2022
Sample Collected By	GLPL	Analysis Period	28/01/2022 To 02/02/2022
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	6.84	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.3	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	5.2	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.4	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	27.6	---	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	94	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/E/22/01120	T.R. Date:	02/02/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 28/01/2022		
Lab Reference No.	GW/E/22/01120	Page No.	1 of 1
Sampling Done On	28/01/2022	Sample Received on	28/01/2022
Sample Collected By	GLPL	Analysis Period	28/01/2022 To 02/02/2022
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	6.90	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.4	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	4.9	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.3	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	84	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For **GADARK LAB PVT. LTD.**

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/E/22/02144	Test Report Date:	19/02/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 14/02/2022		
Lab Reference No.	GW/E/22/02144	Page No.	1 of 1
Sampling Done On	14/02/2022	Sample Received on	14/02/2022
Sample Collected By	GLPL	Analysis Period	14/02/2022 To 19/02/2022
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	6.89	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.3	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	6.7	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.3	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	27.8	---	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	94	100.0	APHA (23 rd Edition) 9221 E ⁺

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/E/22/02145	Test Report Date:	19/02/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 14/02/2022		
Lab Reference No.	GW/E/22/02145	Page No.	1 of 1
Sampling Done On	14/02/2022	Sample Received on	14/02/2022
Sample Collected By	GLPL	Analysis Period	14/02/2022 To 19/02/2022
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	6.87	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.4	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	6.2	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.2	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	84	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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Note:

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4. Customer complaint register is available at laboratory.
5. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/E/22/02148	Test Report Date:	05/03/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 28/02/2022		
Lab Reference No.	GW/E/22/02148	Page No.	1 of 1
Sampling Done On	28/02/2022	Sample Received on	28/02/2022
Sample Collected By	GLPL	Analysis Period	28/02/2022 To 05/03/2022
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	6.90	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.4	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	5.8	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.6	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	27.8	---	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	79	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

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[KAILAS V. CHITALKAR]

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/E/22/02149	Test Report Date:	05/03/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 28/02/2022		
Lab Reference No.	GW/E/22/02149	Page No.	1 of 1
Sampling Done On	28/02/2022	Sample Received on	28/02/2022
Sample Collected By	GLPL	Analysis Period	28/02/2022 To 05/03/2022
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	---	6.94	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.3	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	5.3	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.4	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	70	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For **GADARK LAB PVT. LTD.**

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TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/22/03104	T.C. Date:	18/03/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 14/03/2022		
Lab Reference No.	GW/E/22/03104	Page No.	1 of 1
Sampling Done On	14/03/2022	Sample Received on	14/03/2022
Sample Collected By	GLPL	Analysis Period	14/03/2022 To 18/03/2022
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	—	6.78	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.2	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	6.2	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.2	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	27.7	—	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	84	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

Kailas
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[KAILAS V. CHITALKAR]
Note:

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Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/22/03105	T.C. Date:	18/03/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 14/03/2022		
Lab Reference No.	GW/E/22/03105	Page No.	1 of 1
Sampling Done On	14/03/2022	Sample Received on	14/03/2022
Sample Collected By	GLPL	Analysis Period	14/03/2022 To 18/03/2022
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	—	6.71	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.3	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	6	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.1	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	79	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

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[KAILAS V. CHITALKAR]

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TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/22/03168	T.C. Date:	02/04/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 29/03/2022		
Lab Reference No.	GW/E/22/03168	Page No.	1 of 1
Sampling Done On	29/03/2022	Sample Received on	29/03/2022
Sample Collected By	GLPL	Analysis Period	29/03/2022 To 02/04/2022
Sample Description	River upstream sample (50 mtrs. upstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	—	6.84	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.3	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	6.8	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.4	3.0	IS 3025 (Part 44) : 1993
Temperature	°C	27.7	—	APHA (23 rd Edition) 2550 B
BACTERIOLOGICAL TEST :				
Fecal Colliform	Org/100 ml	94	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

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[KAILAS V. CHITALKAR]

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TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/E/22/03169	T.C. Date:	02/04/2022
Customer Name and Address	M/s. VEDANTA LIMITED (MET COKE DIVISION) (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.		
Letter Ref/Date	As per Dated 29/03/2022		
Lab Reference No.	GW/E/22/03169	Page No.	1 of 1
Sampling Done On	29/03/2022	Sample Received on	29/03/2022
Sample Collected By	GLPL	Analysis Period	29/03/2022 To 02/04/2022
Sample Description	River downstream sample (50 mtrs. downstream from discharge point) , 2000 ml in plastic bottle & 100 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	*Limits	Methods
pH	—	6.81	6.5 – 8.5	APHA (23 rd Edition) 4500 H ⁺
Dissolved Oxygen	mg/ltr	4.4	4.0	APHA (23 rd Edition) 4500 O C
Turbidity	NTU	6.5	30.0	APHA (23 rd Edition) 2130 B
BOD 3 days 27°C	mg/ltr	2.1	3.0	IS 3025 (Part 44) : 1993
BACTERIOLOGICAL TEST :				
Fecal Coliform	Org/100 ml	84	100.0	APHA (23 rd Edition) 9221 E

*Limits: GSPCB Consent No. 5/416/95-PCB/CI-5196

End

For GADARK LAB PVT. LTD.

Kailas

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Kabagayath

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Annexure VIII: Ground water monitoring report (Post- monsoon monitoring done during October 2021)



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Doc. No: GLPL/QF/5.10/01

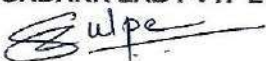
Test Certificate No.	GW/E/21/07134	T.C. Date	25/10/2021
Customer Name and Address	M/s. VEDANTA LIMITED (PIG IRON PLANT) SURVEY NO. 30 (PART)41,42/1,27 (PART) AMONA, P.O. MARCELA, BICHOLIM - GOA.		
Letter Ref/Date	As per Dated 20/10/2021		
Lab Reference No.	GW/E/21/07134	Page No.	1 of 1
Sampling Done On	20/10/2021	Sample Received on	20/10/2021
Sample Collected by	Client	Analysis Period	20/10/2021 To 25/10/2021
Sample Description	Maina - Digamber Naik Well Water, 3 lit in plastic bottle & 1000 ml in glass bottle.		

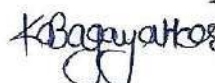
ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per IS 10500 - 2012		Methods (APHA 23rd Edition)
			Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Colour (Pt. Scale)	Hazen unit	< 1.0	5.0 Max.	15.0 Max.	APHA 2120 B
Turbidity	NTU	0.22	1.0 Max.	5.0 Max.	APHA 2130 B
pH	—	6.74	6.5 - 8.5	No Relaxation	APHA 4500 H ⁺ B
Electrical Conductivity	µS/cm	127.00	Not Specified		APHA 2510 B
Total Hardness as CaCO ₃	mg/ltr	42.00	200.0 Max.	600.0 Max.	APHA 2340 C
Chlorides	mg/ltr	12.51	250.0 Max.	1000.0 Max.	APHA 4500 Cl ⁻ B
Sulphate	mg/ltr	2.03	200.0 Max.	400.0 Max.	APHA 4500 SO ₄ ²⁻ E
Total Dissolved Solids	mg/ltr	82.00	500.0 Max.	2000.0 Max.	APHA 2540 C
Nitrate	mg/ltr	1.96	45.0 Max.	No Relaxation	APHA 4500 NO ₃ B
Calcium Hardness	mg/ltr	23.02	Not Specified		APHA 3500 Ca B
Dissolved Iron	mg/ltr	<0.001	1.0 Max.	No Relaxation	APHA 3111 B
Magnesium Hardness	mg/ltr	18.98	Not Specified		APHA 3111 B
Manganese	mg/ltr	< 0.001	0.10 Max.	0.30 Max.	APHA 3111 B
COD	mg/ltr	<4.00	Not Specified		APHA 5220 - B
BOD 3 days 27°C	mg/ltr	<1.00	Not Specified		IS 3025 (Part 44) : 1993
Phosphates	mg/ltr	<0.001	Not Specified		APHA 4500 P D
Total Suspended Solids	mg/ltr	6.00	Not Specified		APHA 2540 D
Oil & Grease	mg/ltr	<0.1	Not Specified		APHA 5520 B

End

For GADARK LAB PVT. LTD.


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[SANTOSH V. ZULPE]


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TEST CERTIFICATE

Doc. No: GLPL/QF/5.10/01

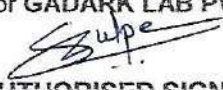
Test Certificate No.	GW/E/21/07135	T.C. Date	25/10/2021
Customer Name and Address	M/s. VEDANTA LIMITED (PIG IRON PLANT) SURVEY NO. 30 (PART)41,42/1,27 (PART) AMONA, P.O. MARCELA, BICHOLIM - GOA.		
Letter Ref/Date	As per Dated 20/10/2021		
Lab Reference No.	GW/E/21/07135	Page No.	1 of 1
Sampling Done On	20/10/2021	Sample Received on	20/10/2021
Sample Collected by	Client	Analysis Period	20/10/2021 To 25/10/2021
Sample Description	Navelim - Sanjay Naik Well Water, 3 lit in plastic bottle & 1000 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per IS 10500 - 2012		Methods (APHA 23rd Edition)
			Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Colour (Pt. Scale)	Hazen unit	< 1.0	5.0 Max.	15.0 Max.	APHA 2120 B
Turbidity	NTU	0.27	1.0 Max.	5.0 Max.	APHA 2130 B
pH	---	6.81	6.5 - 8.5	No Relaxation	APHA 4500 H ⁺ B
Electrical Conductivity	μS/cm	158.00	Not Specified		APHA 2510 B
Total Hardness as CaCO ₃	mg/ltr	64.00	200.0 Max.	600.0 Max.	APHA 2340 C
Chlorides	mg/ltr	16.02	250.0 Max.	1000.0 Max.	APHA 4500 Cl ⁻ B
Sulphate	mg/ltr	3.42	200.0 Max.	400.0 Max.	APHA 4500 SO ₄ ²⁻ E
Total Dissolved Solids	mg/ltr	96.00	500.0 Max.	2000.0 Max.	APHA 2540 C
Nitrate	mg/ltr	2.61	45.0 Max.	No Relaxation	APHA 4500 NO ₃ B
Calcium Hardness	mg/ltr	42.03	Not Specified		APHA 3500 Ca B
Dissolved Iron	mg/ltr	<0.001	1.0 Max.	No Relaxation	APHA 3111 B
Magnesium Hardness	mg/ltr	21.97	Not Specified		APHA 3111 B
Manganese	mg/ltr	< 0.001	0.10 Max.	0.30 Max.	APHA 3111 B
COD	mg/ltr	<4.00	Not Specified		APHA 5220 - B
BOD 3 days 27°C	mg/ltr	<1.00	Not Specified		IS 3025 (Part 44) : 1993
Phosphates	mg/ltr	<0.001	Not Specified		APHA 4500 P D
Total Suspended Solids	mg/ltr	6.00	Not Specified		APHA 2540 D
Oil & Grease	mg/ltr	<0.1	Not Specified		APHA 5520 B

End

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]


CHECKED BY

Note:

1. Results relate only to the sample/s tested, only in case of samples submitted by customer & not drawn by GLPL.
2. Test certificate shall not be reproduced except in full, without written approval of the laboratory.
3. Samples will be preserved for a period 15 days from the delivery of Test Certificate.
4. Customer complaint register is available at laboratory.



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525,
Tel.: (02362) 223519 E-mail: info@gadark.in Website: www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.
Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + 91 9321312367

TEST CERTIFICATE

Doc. No: GLPL/QF/5.10/01

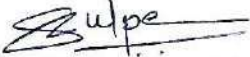
Test Certificate No.	GW/E/21/07136	T.C. Date	25/10/2021
Customer Name and Address	M/s. VEDANTA LIMITED (PIG IRON PLANT) SURVEY NO. 30 (PART)41,42/1,27 (PART) AMONA, P.O. MARCELA, BICHOLIM - GOA.		
Letter Ref/Date	As per Dated 20/10/2021		
Lab Reference No.	GW/E/21/07136	Page No.	1 of 1
Sampling Done On	20/10/2021	Sample Received on	20/10/2021
Sample Collected by	Client	Analysis Period	20/10/2021 To 25/10/2021
Sample Description	Amona - Sandesh Naik Well Water, 3 lit in plastic bottle & 1000 ml in glass bottle.		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per IS 10500 - 2012		Methods (APHA 23rd Edition)
			Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Colour (Pt. Scale)	Hazen unit	< 1.0	5.0 Max.	15.0 Max.	APHA 2120 B
Turbidity	NTU	0.21	1.0 Max.	5.0 Max.	APHA 2130 B
pH	---	6.70	6.5 - 8.5	No Relaxation	APHA 4500 H ⁺ B
Electrical Conductivity	μS/cm	184.00	Not Specified		APHA 2510 B
Total Hardness as CaCO ₃	mg/ltr	62.00	200.0 Max.	600.0 Max.	APHA 2340 C
Chlorides	mg/ltr	31.03	250.0 Max.	1000.0 Max.	APHA 4500 Cl ⁻ B
Sulphate	mg/ltr	4.06	200.0 Max.	400.0 Max.	APHA 4500 SO ₄ ²⁻ E
Total Dissolved Solids	mg/ltr	111.00	500.0 Max.	2000.0 Max.	APHA 2540 C
Nitrate	mg/ltr	2.07	45.0 Max.	No Relaxation	APHA 4500 NO ₃ B
Calcium Hardness	mg/ltr	40.03	Not Specified		APHA 3500 Ca B
Dissolved Iron	mg/ltr	<0.001	1.0 Max.	No Relaxation	APHA 3111 B
Magnesium Hardness	mg/ltr	21.97	30.0 Max.	100.0 Max.	APHA 3111 B
Manganese	mg/ltr	< 0.001	Not Specified		APHA 3111 B
COD	mg/ltr	<4.00	Not Specified		APHA 5220 - B
BOD 3 days 27°C	mg/ltr	<1.00	Not Specified		IS 3025 (Part 44) : 1993
Phosphates	mg/ltr	<0.001	Not Specified		APHA 4500 P D
Total Suspended Solids	mg/ltr	9.00	Not Specified		APHA 2540 D
Oil & Grease	mg/ltr	<0.1	Not Specified		APHA 5520 B

End

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]


CHECKED BY

Note:

- Results relate only to the sample/s tested, only in case of samples submitted by customer & not drawn by GLPL.
- Test certificate shall not be reproduced except in full, without written approval of the laboratory.
- Samples will be preserved for a period 15 days from the delivery of Test Certificate.
- Customer complaint register is available at laboratory.

Annexure- IX: Pictures of installed wheel washing system:



Wheel wash system at raw material gate

Annexure X: Noise Monitoring results from October-21 to March-22

Sr. no.	Location	Noise Level dB (A) Leq- (November 2021)		Noise Level dB (A) Leq- (February 2022)	
		Day time avg.	Night time avg.	Day time avg.	Night time avg.
1	Near Amona gate	69.8	62.4	72.7	63.4
2	Opp. BSNL exchange	62.6	57.6	68.1	60.2
3	Near Dispatch gate	67.3	56.3	68.9	59.7
4	Near Satteri temple	54.2	44.7	58.4	44.1
5	Compound wall towards Navelim	63.7	57.2	64.8	54.8
6	Compound wall towards Maina	64.5	56.8	63.7	55.4

Annexure XI: Health, Environment and Safety policy of our company:

HSEQ POLICY

Document No:HSES/POL-09

We at Vedanta Limited – Iron Ore Business are committed to sustainable development through effective management and continual improvement in health, safety, environment and quality (HSEQ) by ensuring compliance to applicable legal and other requirements as an integral part of our business. The health and safety of our employees and stakeholders (who may be impacted by the company's operations) is of paramount importance and our aim is to achieve zero harm to people and to the environment.

We are always committed to:

- Improve occupational health and safety performance through prevention of injury and ill-health of employees and contractors by providing safe and healthy work environment, minimizing the risks associated with occupational hazards pertaining to day-to-day activities and hazardous processes and by implementing periodic health assessment programs and health monitoring practices.
- Adopt best in class technologies and practices for prevention of pollution, minimization of waste and optimum utilization of resources.
- Supply product on time as per agreed specifications to achieve customer satisfaction.
- Enhance HSEQ awareness and positive culture through effective communication, participation and consultation amongst the employees and stakeholders.

This policy will be implemented throughout the Iron Ore Business, and it shall be reviewed and revised periodically (after consultation with all the interested parties) for suitability and effectiveness and the HSEQ performance shall be communicated to employees and stakeholders.

Date: 31st May ,2021

SAUVICK
MAZUMDER

Digitally signed by
SAUVICK
MAZUMDER
Date: 2021.06.07
16:50:57 +05'30'

Sauvick Mazumder

CEO- Iron and Steel Business



Sunil Duggal

Occupier

1. Advertisement in English language in ‘The Goan’ on 30/01/2022:

REPORT SAYS INDIA BOUGHT PEGASUS AS PART OF DEFENCE DEAL WITH ISRAEL

Palestinian cause, and relations with Israel were strained. "I was not," however, "an openly radical, or completely anti-Zionist, or even a consciously staged moment; I am and I am Israeli." He said he had been walking together between two groups of people on a local beach. "It wasn't."

"They had reason for their anger," he said. "The situation had agreed on the sale of a package of sophisticated weapons under linkage to the release of Palestinian prisoners — with Pegasus and a rain forest system as the centerpiece." The deal, he said, would have state water later to India. And in June 2009, India gave support of Israel at the UN.

"I don't think it's fair to say that I do not care about the rights of every observer states to Palestine human rights organization, a first for the nation."

PTI has reached out to the government for a reaction to the NYT report and may use the disclosure strategically.

No Zero, Question Hour in Parliament on Jan 31, Feb 1

NEW DELHI
There will be no Zero Hour and Question Hour in both Houses of Parliament during the first two days of the Budget Session.

The Budget Session of Parliament shall begin on January 3 with the address by President Ravi Nath Kovind to both Houses in the Central Hall.

On February 1, Finance Minister Nirmala Sitharaman will present the Union Budget for the year 2024-25.

Owing to the developments on these two days, there shall be no Zero and Question Hours for both Houses.

A Parliament Bulletin on

beamed on Friday reads, "There shall be no 'Zero Hour' on January 31 and February 1, 2002. Members are urged to be present, arriving at the address of the President, during the first two days of the 8th session of the 17th Lok Sabha, there will be no 'Zero Hour' on January 31 and February 1, 2002."

It is further added in the document, "Members are informed that the matter of urgent public importance raised during 'Zero Hour' will be taken up from February 2, 2002. However, it is for information of members that, to raise matters of urgent public importance during 'Zero Hour' on Wednesday, February 27, 2002, there will be no 'Zero Hour' on that day, while on February 28, 2002, there will be 'Zero Hour'."

Thursday, February 5, 2022, between 10:00 hours and 18:00 hours either online through a Zoom link or in person at the Parliamentary Notice Office.

As per the Parliament Rules and Proceedings, Question Hour and Zero Hour are held each day for a duration of 60 minutes. In Lok Sabha, Question Hour is held at the start of the day's proceedings from 12 to 12:30 pm and is followed by Zero Hour. In Rajya Sabha, Zero Hour begins at 31 and follows by Question Hour at noon. The Budget Session of Parliament will begin on Jan 31 at 12 and with the President addressing both houses in a joint session following which the economic survey will be tabled.

NEW DELHI
Even though some cities or states in India may be beginning to see plateauing of COVID-19 cases, the risk persists and focus must be on reducing transmission and implementing situation-specific measures, senior WHO official Poonam Khetrarpal Singh said.

The Health Ministry said on Thursday that early indicators of Covid cases plateauing have been noted in certain geographic regions in the country but the trend needs to be observed.

Responding to a question about coronavirus cases having started plateauing in India, Dr. Khetrarpal Singh said:

[illegible]

Asked if the pandemic entering its endemic stage, Mc Hugh said, "currently we still in the midst of the pandemic and the focus should be to curtail the virus spread and save lives".

"By becoming endemic doesn't mean that the virus will not be a cause of concern," she said.

Compared to the CDC ID-59 Delta variant, she said Omicron is able to more rapidly infect the tissues of the upper respiratory tract rather than the lungs, which may also help the spread of the variant.

Omicron is presently halting the third wave of COVID-19 in the Omicron wave in

Need law against religious conversions, says Keirimal

Freight train will enhance commerce in Manipur: PM

NEW DELHI
With the first freight train reaching Manipal, Prime Minister Narendra Modi on Saturday said this will enhance the state's commerce and connectivity as goods from there will reach all parts of the country.

The freight train arrived at the Rani Gaidolun station in the north-eastern state on January 22, days after a passenger

Transformation of the Northeast continues. Manipur's connectivity will be enhanced and commerce will be boosted. Wonderful products from the state can travel all over the nation. PM Narendra Modi said on Twitter today.

Government of Goa
OFFICE OF THE CIVIL
REGISTRAR, GOA-SUB
REGISTRAR, SION, LEITE
Room No. 205, 2nd Floor, Mathay
Baldassarri Administrative Complex,
Margaras - Goa
Office Tel No. 0632-2715169
(Office Email)

AMRITSAR
Punjab Congress president
Narvot Singh Sidhu on Satur-
day filed his nomination pa-
per and stated the SAD's Bilam-
singh Mahindra to fight only
from this constituency, and
not also from the Mahindra seat.
Alongside the Amritsar East
assembly constituency, the
Swarnamit Akali Dal leader
is contesting from the Jag-
jit seat, which he currently
holds.
Talking to reporters after
filing his nomination paper
from the Amritsar East, Sidhu
said that he would try to win
so much gain, and have faith in
people that leave Mahindra and

PPCC President Narpat Singh
Sinhla gestures after filing his nomination papers in Amritsar on Saturday.

AGENCIES



In a special recognition ceremony organized on the digital platform, Mr Shailesh Madhav Vaidya, Chairman-IndianOil, received the award on behalf of IndianOil. The award was presented by Mr Wolf Ekelund and Mr Tomy Hutchinson, Co-Directors and Co-founders, Global Centre for Health Workflows.

Speaking on the occasion,



Mr. Shrikanth Madhav Vaidya said, "I thank the Global Centre for Healthy Workplaces for recognizing IndianOil's sustained efforts in creating mentally, physically and emotionally healthy workplaces. The honour also reflects how IndianOil has been catering to global benchmarks as far as on-joys happiness is concerned".

PTI _____

tech workplace has found new love with remote working, giving them freedom and productivity that requires HR to be more trusting. It said adding that engaged or underutilised employees will find alternatives faster and easier than pre-pandemic times.

66 per cent of respondents are confident that they prefer working from home to working from the office.

McKinsey Tech Outlook 2022 said in an analysis of impact from 2010 to 2020, 100 million people have been displaced across four continents, done by the rise of automation, social media influencers, telemedicine and panel discussions.

That 66 per cent employees said they prefer more productive working from home and feel less stressed.

McKinsey said that HR shifted from engaging face to face to engaging with remote workers. It said that employees only virtually meet of the 10 million people.

More than 80 per cent of the 100 managers admitted that they are more trusting of their employees.

Full-time office presence is going to be more difficult, the study said.

Working from home is no longer a choice but a new normal that every tech talent expects from their employers and the employers, not willing to adapt will face challenges in hiring good talent and retaining already employed, it obtained.

The tech workforce has found new ways with remote working, giving them freedom and productivity that requires HR to be more trusting, it said adding that overage or underutilized resources will waste the company's money and exit faster than pre-pandemic times.

This is to inform
accorded Enu
Additional Business
North Goa District
of BF-1 & 2 from 2
of Additional Cax
TPA and add
Environment Clea
also available

PUBLIC NOTICE

VEDANTA LIMITED

Registered Office: 1st Floor, C wing, Unit 103, Corporate Avenue Atlas Projects,
Chakola, Andheri (East) Mumbai, Maharashtra - 400093 India
CIN: L1320MH1985PLC293154 Website : www.vedantaltd.com
Email Id : iranorecommunications@vedanta.co.in Telephone No. : +91-8322733601

PUBLIC NOTICE

This is to inform that Ministry of Environment, Forest and Climate Change, New Delhi, has accorded Environmental Clearance (EC identification No EC22A008GA145461) to Value Addition Business of Vedanta Limited, located in villages Amona and Navelim, Sicheolim Taluk, North Goa District, for Up-gradation of Blast Furnaces (BF) to Enhance the Production Capacity of BF-1 & 2 from 2,90,000 TPA to 3,50,00,000 TPA, addition of 4000 TPA, setting up of Additional Oxygen Plant of 150 TPD, Fe-Si plant of 5000 TPA, Ductile Iron Pipe plant of 36000 TPA and addition of 4 covers to existing Metallurgical coke battery - 1 unit. The copy of Environment Clearance letter is available in the office of Goa State Pollution Control Board as also available on website (www.epa.gov.in) of Ministry of Environment, Forest and Climate Change, Govt. of India .

For Vedanta – Value Added Business (VAB)
Sapna Shah Sardaoli,
Director, VAB

कांदोळे उज्यांत दोन शॅकांचो गोबोर

एक कोटीचें लुकसाण; शॉर्ट सर्किटाक लागून उजो लागिल्ल्याचो दुबाव

■ भांगरभूय । प्रतिनिधि

[illegible][illegible][illegible]

सरकारी कर्मचारी तुमच्या घरा
येवन करतले काम: आतिशी
नुव्यां डॉ. मारियामो गुदिन्हो खातीर घराघरांनी वचून प्रचार

■ भाग्यभूय । छवरा मेज

[illegible]

कांदोळे दया देगेर उज्यां। लासुन पोवर जळले दोनूय हांक रेस्टॉरंट. (उमेरा झर्मेका)

दुर्दवी घडणूक: मायकल लोबो

[illegible]

वैष्णवके उपरांत मजत: ब्लेड फर्नाडीत

સાચો લાભુનું ટોચનું સંવાદી પુરાણ પોષ્ટર જાણતા વેપારીને કલ્પનાત્મકતા આપી તરફ
મજા કરાવતા આપત્તી વેશર કરતા પાલોલીની વચ્ચે સ્થળ સેટ વધારીને મોંઘ
પાસપાસે આવી પડ્યાનો જોર કલ્પન તારાવતો જાણીતો પડખાપો કાલજીવન વિશેના
વાચક સમય તરીકે એકવાર કલ્પનાત્મકતા જોઈ મરણના કલ્પનાત્મકતા સમયે

[illegible]

पराधीनता टाकून खालील प्रतिमांकित
दिनेक वसितिल्ले. ताका लागून
सुखशान्तेचे खरो भांडाळी पसरत
आलेक. न. पूण एक वेळीं पारा पात
सुखशान्त जाल्ल्याचें शिक घने म्हातान
फावडीसत संपलें.

बादशाहत 57 उमेदबारी
अर्ज ग्राह्य

● भाषाभूषण । प्रतिनिधि

साथी: किराया के मुक़ाबले
 कहीं माफ़ाव भी मिलेगा
 उम्मीदवारों को अर्जों के ज़रिये प्रतियोगिता
 के माध्यम से चुना जाएगा।
 सामने रखी है ५५ अरब रुपये
 के लिए ज़ाबत ३५ उम्मीदवारों को है।
 साधना,

पणजे लाखाचो गांजो जप्त

■ सांगतभूंय । प्रतिनिधी

मार्गदर्शक: पणजी पुलिसमैन केरि धरमरा लालमर भरत देवील पंथ मुखल पण पणकु एक लाल मोरये १९३३ लाल पंथ जय केरि, सा प्रमाणल पुलिसमैन शत्रु मिलाय टेमसय (२६) मुम्बईमाली पुलिसमैन मिलाय

[illegible]

सिंघा लिमिटेड
ब्लॉक सुनिट 103, कॉर्पोरेट अवेन्यू अतुल प्रोनेक्चर्स,
मुंबई, महाराष्ट्र - 400093 भारत
4, वैशाली डी: www.sesagoaironore.com
nmunications@vedanta.co.in
फोन: +91-8326713601

सार्वजनिक सुचोवणी

[illegible]

वेदांता- दुर्लभ एंडर विजिलेसा (VAR)
सप्रेम सरदेसाई संचालक, VAR

[illegible]

ਸਰਕਾਰੀ ਸਕੂਲਾਂ ਵਿੱਚ ਸ਼ਾਮਲ ਕੀਤੇ ਗਏ ਹਨ।

Annexure XIII: Picture of the digital display board:

