COMPLIANCE OF ENVIRONMENTAL CLEARANCE- ARCL

The status report on stipulated Environmental condition vide letter No J-11011/166/2011-IA-II (I) dated 21st November 2012 & MoEFCC Letter - F No J-11011/166/2011-IA-II(I) dated 21st October 2013 for Pellet plant 1, point-wise explanations are as follows.

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1	Waste gases from Blast furnace and coke ovens will be utilised for power generation. Fugitive emissions from raw material handling section will be suppresses by dry fogging system / water sprinkling.	 Waste Gas from Blast Furnace (BF) and Coke Oven Gas (COG) is used in 55 MW
		 Gas Holders provided for storing the Coke Oven Gas, LD and BF Gases. Gas Holder will help the steady network flow for distribution of gas in constant pressure (Operating pressure 996 mmWC. Also it helps to proper utilization of waste gases. Total COS Savings will be approximately 660000 Ton of CO2 per year. Energy saving approximate 1 Million Gcal/Year. Total cost for both gas holders is R. 86.97 (Rs 33.2 Crores + Rs 53.77 Crores)
		 De-dusting System with Bag filters a Junction houses of raw materia handling section in Blast Furnace and Coke Oven Plants. De-dusting System with Bag filters a Stock House - 2 Nos
		Cast house fume extraction system with Bag Filters • Dust suppression by dry fog systems

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		 water spraying systems provided at Raw Material Handling Section (RMHS) and other applicable areas. All conveyors and Junction houses of Raw Material Handling systems are closed system. Total Investment on Yard sprinklers, De-dusting system and Dry fogging system Rs 77.29 Crores
		 Details of covered shed for storage of Raw Material; Covered shed for Jetty yard-A with a capacity of 110,000MT for Coal Storage Covered shed for Jetty yard-B with a total capacity of 305,000 MT for Iron Ore and Flux. Covered Sheds (2 Nos) for Pellet and Coke Storage of Capacity-1,20,000 MT each. Covered shed for storing Iron Ore Bearing Material and Flux of Capacity 4,27,000 MT
		Total expenditure on cover shed is approximately 320 Crores.
		 Environmental Benefits of Covered Shed: No fugitive emission during handling of material No water contamination during rains No spillage of material on roads Covered storage shed will prevent dust emission in the environment during operation of the yard.
		To control the fugitive emissions in Coke Oven Plant, following Control Measures are

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		 Bag Filters for coal crushing & mixing station & route Ground De-dusting system with Bag Filters – connected to charging and pushing, primary crusher, coke cutter, secondary coke crusher area Bag Filters for coke screen house & Silo. Dust suppression system at all the transfer points, coal handling and coke handling route.
		Hence the condition has been complied
2	The makeup water requirement for the proposed expansion will be 2,590 m³/day and the existing consumption is 833.3 m3/day, which shall be sourced from the State Water Resources Dept. from Nagothane dam at K.T. Bandhara. Maximum recycling of wastewater will be done after treatment to achieve zero discharge. Treated wastewater will be used for dust suppression and green belt development. Effluent streams such as cooling tower blow down, floor washings etc. will be used for fugitive dust suppression, water sprinkling etc. Sewage will be treated in septic tanks. Bag filter dust will be recycled in the process. Blow down water from power plant will be reused in steel melting shop slag yards for spraying on hot slag. Blow down water from Blast furnace recirculation system will be reused in the slag granulation plant as make up water to SGP recirculation water system. Treated waste water from coke oven by products plant will be used in the system itself.	 Complying with The makeup water requirement for the proposed expansion is limited to 2590 m3/hr (inadvertently mentioned as m3/day) besides the existing consumption for 3 MTPA plant The water is sourced from the Nagothane dam at K.T. Bandhara as per the allocation from the Water Resources Department of Maharashtra. Treated waste water & cooling tower blow down (CTBD) are used for dust suppression, slag cooling & plantation. There is no waste water discharge form the plant. Sewage is treated in septic tanks & STPs & reused for gardening. Bag Filter dust is recycled & reused in the process of Sinter & Pellet Making. Blow down of power plant is used in SMS slag recovery plant for dust suppression. Blow down water from Blast furnace 1 recirculation system is reused in the

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		slag granulation plant (SGP) as make up water to SGP recirculation water system. • Treated water from Coke oven byproduct is used in coke quenching
3	BF slag will be granulated and used for cement manufacturing. Slag from SMS production will be used in the sinter plant, in land / road / area development or for manufacturing of insulated bricks etc. Mill scale, flue dust from the blast furnace, dust from the bag filters will be used in Sinter plant. All pumps and motors will be selected from less noise generating types. Ear plugs will be provided to employees working in high noise prone areas. DG set will be provided with silencer.	 Hence the condition has been complied 100% granulated slag of Blast furnace - 1 is used in Cement Plant for making of Cement in JSW Group Company. SMS- EAF slag is used in the sinter plant, in internal roads / land reclamation, area and construction of concrete structures and road construction in National Highways. Mill scale, flue dust from Blast Furnace 1, dust from Bag Filters used in Sinter plant. GCP dust from SMS 1 is used in Sinter Plant and Pellet plant Low noise level pumps and motors are used. Ear plugs / Ear muffs provided to all employees working in high noise prone areas. DG sets having provided with silencer.
4	All the integrated steel plant are listed as S. No 3 (a) as Primary Metallurgy Industries under category A of the Schedule of EIA Notification 2006 and appraised by the Expert Appraisal Committee (Industry-I) of MoEF.	Hence the condition has been complied Complying with As per the EIA Notification 2006 and as per the EC conditions stipulated by MoEFCC for integrated steel plant listed as S.No 3 (a) as Primary Metallurgy Industries under category A

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5	The proposal was considered by the expert Appraisal Committee -1 (industry) in its 37 th Meeting held during 14 th and 15 th June 2012. The Committee recommended the proposal for Environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public hearing was conducted on 28.02.2012.	Industry is complying with all the general conditions and specific conditions stipulated in the Environment Clearance. Complied the points raised during Public Hearing.
6 Speci	Based on the information submitted by you, presentation made by you and consultant, M/s. MECON Limited., Ranchi, the Ministry of Environment and Forests hereby accords Environmental clearance to the above project under the provision of EIA Notification dated 14 th September 2006 subject to strict compliance of the following specific and general conditions. fic Conditions;	Industry is complying the general conditions and specific conditions stipulated in the Environment Clearance under the provision of EIA Notification 2006.
i	Measures shall be undertaken to mitigate particulate levels in the ambient air and a time bound action plans shall be submitted. On-line ambient air quality monitoring with proper O&M and continuous stack monitoring facilities for all the process stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), gas cleaning plant, scrubber, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm3 by installing energy efficient technology.	 Complied Adequate dust control measures (Bag filters, ESPs, Venturi Scrubbers, Cyclones) have been provided to all the units to mitigate particulate levels in the ambient air quality. Environmental monitoring parameters are well within the prescribed standards as per the Consent granted by MPCB. Five Continuous Ambient Air Quality Monitoring stations have been installed in consultation with MPCB. All these stations are connected to URL of MPCB.
		 & CPCB & data is being transmitted online on real time basis for PM2.5, PM10, SO2, NOx & CO with proper O&M Continuous Stack Emission Monitoring systems are installed at all major stacks

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		 (Process stacks) & connected to URL of MPCB & CPCB & data is being transmitted online on real time basis. Electrostatic precipitator (ESPs), gas cleaning plants, scrubbers, bag filters etc. are provided to all units & PM levels are well within the prescribed norms as per MPCB Consent conditions.
ii	As proposed, Electrostatic precipitator (ESP) shall be provided to sinter / Pellet plant, WHRB, DE Plants and dust catcher followed by venturi scrubbers to blast furnace to control SPM levels within 50 mg/Nm3. Fume extraction system shall be provided to induction furnaces to control the emissions within the prescribed standards.	 Electrostatic precipitator provided in Blast Furnace 1, Sinter Plants & Pellet plant, Cast House Fume Extraction System, Waste Heat Recovery Boiler (WHRB), Dust Extraction System and dust catcher followed by venturi scrubbers, de-dusting system with bag filters in stock houses in Blast Furnace are provided. The emission level from the stacks are well within the prescribed standards. The Copy of the Six Monthly Environment Monitoring Report for plants under Amba River Coke Ltd is attached herewith in Annexure 1 JSW Steel Ltd., Dolvi, there is no Induction Furnace installed, however in Steel Melting Shop 1, Electric Arc Furnace (EAF) connected with - Gas Cleaning Plants (4 Nos) with bag filters provided with primary and secondary fume extraction systems. The emission level is well within the prescribed standards. The existing Gas Cleaning plants (GCPs 1, 2 &3) were modified and the guaranteed parameters of PM level in stacks are < 50 Mg/Nm3.

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iii	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E)	Hence the point is being complied Complied On line Ambient air quality monitoring
	dated 16th November, 2009 shall be followed.	system (5 Nos) installed in the plant for the parameters PM10, PM2.5, SO2, NOx, CO and the data is uploaded in the CPCB and MPCB servers.
iv	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed. New standards for the sponge iron plant issued by the Ministry vide G.S.R. 414 (E) dated 30th May, 2008 should be followed.	 Complying with Adequate measures have been taken to control the gaseous emission levels. Secondary fugitive emissions at Blast Furnace 1 - Cast House de-dusting system with Bag filters, Stock House de-dusting system with Bag filters. Gas Cleaning Plants (4 Nos) for Electric Arc Furnace (EAF) of Steel Melting Shop (SMS - 1) from all the sources and are well within the permissible limits issued by the Ministry and regularly monitored. A new standard for the sponge iron plant issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 is being followed. As per the new guidelines of Sponge Iron Plant, the monitoring for stack emissions, work place monitoring etc. are carried out and the reports are within the CPCB norms.
V	Total makeup water requirement for expansion shall not exceed 2,590 KLD. Efforts shall further	Complying with The makeup water requirement for the
	be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit	proposed expansion is within the water allocated and less than 2590 m3/hr.

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	cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent should be treated and used for ash handling, dust suppression and green belt development. No effluent shall be discharged and 'zero' discharge shall be adopted. Sanitary sewage should be treated in septic tank followed by soak pit.	 Roof Top Rain water harvesting system have been implemented. Closed circuit cooling towers are provided to optimize water consumption. All effluent is treated & recycled in the process and reused in slag cooling, dust suppression & plantation purpose. No waste water is discharged to outside the plant premises except run off during monsoon. Sewage Treatment Plants (STP) 3 Nos provided for treatment of sewage. The treated sewage water is used for gardening.
vi	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	 Complying with Roof top Rain water harvesting system has been established (at 12 various buildings of Oxygen Plant, Coke Oven, Power Plant, MRSS and Admin.) The harvested rain water is being used in the cooling towers as make up
		 water. Since the water table is very high, therefore recharging ground water table is not feasible.
vii	Regular monitoring of influent and effluent surface, sub-surface and ground water (including chromite) should be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the E (P) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhopal, SPCB and CPCB.	 Regular monitoring of surface water samples is being done by MoEFCC approved and NABL accredited labs & the results of all parameters are well within the prescribed standards. The plant is not using any ground water. Analysis reports are submitted to the Regional Office, MoEF&CC, MPCB &

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viii	The water consumption shall not exceed as per	CPCB on regular basis. All monitoring reports are submitted as per guidelines to; • MPCB - Once in three months, also as & when required, • MOEF&CC, Nagpur & Delhi – Once in Six month, • CPCB, New Delhi – Monthly basis Water consumption is well within the proscribed narms & CPEB guidelines for
	the standard prescribed for the steel plants.	prescribed norms & CREP guidelines for the steel plants (less than 5 m3/ton of crude steel) Specific water consumption for the steel plant for 2023-24 (up to March 2024) is 2.35 M3/TCS Hence the point is being complied
ix	Vehicle pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	 Complying with Transportation of raw material is mainly through sea route to captive jetty and further to the steel plant via closed conveyors. Rs 320 Crores have been spent for covered shed for storage of raw material like coal, Iron Ore and Flux at Jetty & Raw Material storage yard to control the dust emission. Transportation of finished products is mainly by rail. Adequate dust suppression systems
		have been provided to control dust emissions during loading and unloading of the raw material and finished product. Dust Suppression such as; - Dry Fog System / Water spraying in

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		junction houses / Transfer Towers at Raw Material Handling System (RMHS) & other units. - All the Junction houses and Conveyors are covered to avoid fugitive emissions while transfer of material through conveyor.
х	All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3 tier avenue plantation using native species shall be developed along the roads.	Complying with All internal roads are concreted & Vacuum based road sweeping machines (6 Nos) and mist type mobile water tankers (2 Nos) are provided for control of road emissions. Avenue plantation using native species
xi	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of Solid/hazardous waste should be submitted to the Ministry's Regional Office at Bhopal, SPCB and CPCB.	have been planted along the roads. Complying with Proper handling, storage, utilization and disposal of all the solid wastes like Iron ore fines, coke fines, fluxes and scales generated from the plant is used in Sinter Plants & Pellet Plant. Material have been shifted through conveyor, closed bulkers and loaded by pneumatic conveying system.
		 The report of Solid wastes and Hazardous wastes generation and disposal are regularly submitted as mentioned below. MPCB - Once in three months, also as & when required, MOEF&CC, Nagpur & Delhi - Once in Six month, CPCB, New Delhi - on Monthly Basis.
xii	Proper embankment shall be provided for the sludge disposal area.	Complying with

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		 Proper embankment provided to contain sludge at all generating points-Sponge Iron Plant, Blast Furnace 1 and Hot Strip Mill 1. Sludge generated from the Effluent treatment plants (Sponge Iron Plant, Blast Furnace, are used in sinter making & Pelletization process. In sludge handling areas filter press and vacuum drum filters installed at Sponge Iron Plant, Hot Strip Mill and Blast Furnace.
xiii	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhopal, SPCB and CPCB within 3 months of issue of environment clearance letter.	Risk and Disaster Management plan is prepared and has been already submitted to MoEF&CC along with EIA Report
xiv	As proposed, green belt shall be developed in 33 % of plant area as per the CPCB guidelines in consultation with the DFO.	As per the EC FJ-11011/76/2013-IA.II(I) dated 16/06/2020, Green belt is developed in and around the plant.
		In addition to the Green belt development "EK PED MAA KE NAAM" campaign was undertaken by JSW Steel, wherein plantation was done at 4 no of schools.
		Green Belt within Plant:
		 Presently, 13% green belt is developed over 18.00 ha land within the plant premises with 2,17,457 nos of trees. Balance 18.42 Ha (3%) green belt area is to being developed with 46,200 nos of trees. Green belt developed with tree density 2500 trees/hectare and local area is a species.
		species.Green Belt Outside Plant in 10 Km area:

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		 Green belt outside the plant premises has been developed over 203.00 Ha i.e. 33 % as per EC. Green belt outside the plant premises is developed in forest land in proximity of the plant area in consultation with local forest department over 51 Ha land and Mangrove Plantation over 152.00 Ha. Programs for making people aware of importance of plantation are being done through Gram-Panchayat.
	All the green and tiens green in the Chapter	Hence the condition is being complied
XV	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.	 Complying with The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel plants are implemented. Coke oven plant – Tar sludge / ETP sludge are reused in the Coking process. Blast Furnace – Energy recovery of top blast furnace gas is being done with power generation through TRT by using top pressure of BF gas. Coke Oven Plant - Coke Dry Quenching systems (3 Nos) (CDQ) installed and recover the sensible heat of red hot coke, reduce energy consumption and pollution and improve the quality of coke. Each CDQ will reduce water consumption by 1920 m3/day and energy of 70 MW will be recovered along which will reduce the CO2

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	ENVIRONMENTAL CLEARANCE CONDITIONS	 emissions by approx. 10.9 Lac.t CO2eq Steel Melting Shop (SMS), secondary de-dusting system (Gas Cleaning Plants 4 Nos) has been installed to control fugitive emissions Coal Injection Plant for direct injection of pulverized coal in furnace has been implemented. Present rate of CDI in our Blast Furnace 1 is 155 Kg/THM & Blast Furnace 2 is 197 Kg/THM (average for the year 2023-24). Blast Furnace Slag (BF) Slag- 100% utilized in Cement plant. Electric Arc Furnace Slag (EAF) slag-100 % for construction activities, land filling in the low lying areas of expansion projects and is also being used for internal road making and Concrete and asphalt roads.
		 Presently Steel slag is used as aggregates for construction roads in National Highways with coordination with Central Road Research institute (CRRI), New Delhi.
		Cast House Fume extraction system inclusive of tap holes, runners, skimmers, ladle and charging points have been provided to control Fugitive emissions from Blast Furnace.
		The specific water consumption for the year 2023 – 24 (April to March 2024) was 2.35 m3/t of crude steel which is well below the targets for flat products and as well as for long products.
		Online Stack Monitoring System

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		have been installed on major stacks and 5 Nos Online Ambient Air Quality Monitoring System. The real time data is interlinked with MPCB and CPCB server.
xvi	The company shall adopt well laid down corporate environment policy and identified and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with environmental clearance, environmental laws and regulations.	Complied Environment Policy is in place and being complied in adherence to Environmental Clearance, Environmental Laws and Rules and Regulations.
xvii	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 28th February, 2012 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhopal.	Environmental protection measures and safeguards recommended in the EIA/EMP report is being implemented and complied. Amount spent on CSR Activities: For 2022-23 (April to March 2023): Rs 3.865 Crores For 2023-24 (April 2023 to March 2024): Rs 7.90 Crores.
		The above amount has been spent on Social Development- (Education & Training), Skill Development, Water and Sanitization, Agriculture, Mangrove Plantation, Rural Development, Health Check-up, Solid Wastes Management and Community Development.
		The Industry has taken up many socio- economic development activities in the surrounding villages as part of our CSR activities and they are going on. Drinking water supply for surrounding villagers. Various community development programs, Educational programmes and

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		Skill Development, Health care – Regular Medical Camps for villagers for health check-up.
xviii	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of Solid/hazardous waste should be submitted to the Ministry's Regional Office at Bhopal, SPCB and CPCB.	Complying with Proper handling, storage, utilization and disposal of all the solid wastes like Iron ore fines, coke fines, fluxes and scales generated from the plant is used in Sinter Plants & Pellet Plant. Material have been shifted through conveyor, closed bulkers and loaded by pneumatic conveying system.
		 The report of Solid wastes and Hazardous wastes generation and disposal are regularly submitted as mentioned below. MPCB - Once in three months, also as & when required, MOEF&CC, Nagpur & Delhi - Once in Six month, CPCB, New Delhi - on Monthly Basis.
xix	The company shall provide housing for construction labour within the site with all necessary Infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Industry has Complied the conditions during installation and commissioning of the plant. Provided housing for labour within the site with all necessary Infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STPs, safe drinking water, medical health care, crèche etc. After completion of the project activities
		the temporary structures have been dismantled and removed.
Gene	ral Conditions:	
i	The project authorities must strictly adhere to the stipulations made by the Maharashtra State	Complied All the terms & conditions stipulated by

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	Pollution Control Board and the state government.	Maharashtra Pollution Control Board (MPCB) and State Government are being followed.
ii	No further expansion or modification in the plant shall be carried out without prior approval of the ministry of Environment and Forests.	Complied As per the EC conditions, expansion or modifications of the plant was done. Industry has done in all expansion activities after obtaining prior Environmental Clearance from MoEF&CC.
iii	The gaseous emission from various process units shall conform to the load/mass based standards notified by this ministry on 19 th may, 1993 and standards prescribed from time to time. The State Boards may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Adequate Air Pollution Control measures have been provided to each unit of the plant and the Gaseous emissions from the process units are well within the prescribed standards as notified by the Ministry. Complied the Consent conditions as per the Maharashtra Pollution Control Board under The Air Act, The Water Act and Hazardous Waste Management & handling and Transboundary Rules. Hence the point is being Complied
iv	At least four ambient monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this ministry including its regional office at Bhopal and the SPCB/CPCB ones six months.	 Complying with Five Continuous Ambient Air Quality Monitoring stations have been installed in consultation with MPCB. All these stations are connected to URL of MPCB & CPCB & data is being transmitted online on real time basis for PM2.5, PM10, SO2, NOx & CO. 46 Nos. Continuous Stack Emission Monitoring systems for plants up to 10 MTPA (Phase I & 2) are installed at all major stacks & connected to URL of MPCB & CPCB & data is being transmitted online on real time basis.

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		 Data on Stack Emission, Ambient Air Quality and Work Environment Air Quality are being submitted to; MPCB - Once in three months, MOEF&CC, Nagpur & Delhi – Once in Six month, CPCB, New Delhi – Monthly basis Hence the point is being Complied.
V	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th may, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilised for plantation purpose.	Industrial Waste water generated from the plant is treated in the plants and reused in the process/ slag cooling purpose. There is no discharge of industrial waste water to outside the plant premises. Hence the point is being Complied
vi	The overall noise level in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level should conform to the standards prescribed under EPA rules, 1989 viz. 75dBA (daytime) and 70 dBA (night time).	Noise control measures installed in the plants like acoustic hoods, silencers, enclosures etc. on all sources of noise generation & measured noise level are well with in prescribed standards. The ambient noise level is monitored in the boundary of the plant and the values are well within the standards prescribed under EPA rules, 1989 viz. 75dBA (daytime) & 70 dBA (night time). Hence the point is being Complied
vii	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the factory Act.	As per the Factories Act, regular health surveillance done for all the workers and employees & records are maintained on regular basis. Hence the point is being Complied
viii	The company shall develop surface water harvesting structure to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Roof top Rain water harvesting system is being implemented 12 buildings and the harvested rain water is being used in the cooling towers.

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		Since the water table is very high, therefore recharging ground water table is not being done.
ix	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, drinking water supply and health care etc.	 Environmental protection measures & safeguards recommended in EIA/EMP report are being complied. Socio – economic development activities / programmes like supply of drinking water, health care camps & community development programmes, Self Help Groups, Training and education, Rural Development, Sanitary etc. are being carried out on regular basis and will be continued as per plan. Hence the point is being Complied.
x	Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution controls measures to implement the conditions stipulated by the ministry of environment and forest as well as the state Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the regional office of the ministry of the Bhopal. The funds so provided shall not be diverted for any other purpose.	Requisite amount is earmarked towards capital cost and recurring cost/annum for environment pollution controls measures to implement the conditions stipulated by the MoEF&CC as well as the State Government. The funds earmarked for Environmental pollution control measures are properly utilized. The funds earmarked is not diverted any other purpose.
xi	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila parishad /municipal corporation, Urban local body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied A copy of clearance letter is already submitted to concerned Panchayat, Zillah Parishad/Municipal Corporation, Urban Local Body and the local NGO. The Environment Clearance letter also put on the JSW Web site.

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xii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitoring data on their website and shall update the same periodically. It shall simultaneously be sent to the regional office of the MOEF at Bhopal. The respective zonal office of the CPCB and the CECB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emission) or critical sectoral parameters, indicated project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied. The status of compliance of the stipulated environment clearance conditions, including results of monitoring data on their website and shall update the same on six monthly basis. The EC compliance and Environmental monitoring reports are submitted to MoEFCC, CPCB. The CEMS data and CAAQMS data are displayed at the main gate.
xiii	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the regional office of MoEF, the respective Zonal office of CPCB and the SPCB. The Regional office of this Ministry at Bhopal / CPCB / SPCB shall monitor the stipulated conditions.	Being Complied. The six monthly Environmental Clearance compliance report and Environmental monitoring reports are submitted to Regional Office of MoEFCC, MPCB and CPCB.
xiv	The Environmental Statement for each financial year ending 31 st March in Form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance conditions and shall also be sent to the respective Regional Office of the MoEF at Bhopal by e-mail.	Plant wise Environment Statement for 2023-24 prepared and submitted to MPCB portal and uploaded on the web site of the company. Also the same are submitted to regional office of MoEFCC along with six monthly EC compliance report. Copy of Environment Statement attached in Annexure 2

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xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http/moef.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locally concerned and a copy of the same should be forwarded to the Regional Office, Bhopal.	Published in newspaper as per guidelines namely in Local newspaper Dainik Krushiwal, Raigad Times, Ramprahar dated 24/11/2012 and English newspaper Indian Express dated 26/11/2012. Hence this point is complied.
xvi	Project authorities 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 and the date of concerned authorities and the date of commencing the land development work.	Complied
11	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
13	The above conditions shall be enforced, interalia under the provisions of the Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2008 and the Public (Insurance) Liability Act 1991 along with their amendments and Rules.	 The plant is regularly complying for The water (Prevention& Control of Pollution) Act 1974, The Air (Prevention and Control of Pollution) Act, 1981 The Environment (Protection) Act 1986 The Public Liability Insurance Act, 1991 along with their amendments and rules.

APRIL TO SEPT 2024 AMBA RIVER COKE LTD, DOLVI WORKS

Six Monthly Compliance, Status report

Compliance status of Specific and General Conditions of Environmental Clearance for Pellet Plant I (4.0 MTPA) at Geetapuram, Village Dolvi, District Raigad, Maharashtra.

EC No - F No J-11011/166/2011-IA-II(I) dated 21st October 2013.

ENVIRONMENTAL MANAGEMENT DEPARTMENT

JSW STEEL LTD, DOLVI WORKS, TALUKA PEN, RAIGAD-DISTRICT, MAHARASHTRA 402107

Annexure 1

Six Monthly Environmental Monitoring Report for Plants under Amba River Coke Ltd (April to September 2024)



Amba River Coke Limited

Dolvi Works: Geetapuram, Taluka Pen, Dist Raigad (Maharashtra),

Dolvi - 402 107

CIN.: : U23100MH1997PLC110901

Phone : 02143 277501 - 14 Fax : 02143 277533 / 42

November 25, 2024

ARCL/ENV/MoEF & CC/2024

To

Regional Officer Ministry of Environment, Forests & Climate Change Regional Office, (West Central Zone) Ground Floor, East Wing, New Secretarial Building, Civil Line, Nagpur – 440001

Sub: Submission of Six Monthly Environmental Monitoring Reports for Coke Oven Plant & Pellet Plant of M/s. Amba River Coke Ltd. at Geetapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra for the Period of April, 2024 to September 2024.

Ref: i) MoEF Letter - F No J-11011/286/2007-IA-II(I) dated 12/01/2009.

Dear Sir,

Please find enclosed the six monthly Environmental Monitoring Reports for the period of April, 2024 to September 2024 for 1.0 MTPA Coke Oven Plant & 4.0 MTPA Pellet Plant of M/s. Amba River Coke Ltd. at Geetapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra. This is for your information & record please.

Thanking you,

Yours faithfully, For Amba River Coke Limited

Satish Kumar Choudhary

General Manager(Environment)

CC: 1) The Director, MoEF&CC, Indira Paryavaran Bhawan, Jor Bagh, Lodi Road, New Delhi-110003 for kind information.

2) The Zonal officer, CPCB, Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara-390 023, Gujarat.

3) The Regional Officer, MPCB, Raigad, Raigad Bhavan, CBD Belapur, Navi Mumbai

Bandra Kurla Complex, Bandra(E), Mumbai - 400 051.

Phone : +91 22 4286 1000 Fax : +91 22 4286 3000



Location		Near Kasumata Temple Near Coke Oven Plant											Near Goa Ga	te			Near	MSEB Substa	tion		Near Dolvi Village					
Date	PM2.5	PM10	SO2	NOX	co	PM2.5	PM10	SO2	NOX	со	PM2.5	PM10	SO2	NOX	co	PM2,5	PM10	502	NOX	со	PM2.5	PM10	SO2	NOX	со	
01-04-2024	14	38	6.04	10.08	0.83	31	88	6.54	34.25	0.87	18	17	5.47	28.74	0.52	31	73	5.53	9.63	0.21	46	93	5.65	18.5	0.66	
02-04-2024	11	21	6.13	8.12	0.71	28	85	6.24	22.64	0.7	17	18	5.59	30.72	0.57	19	56	4.65	9.79	036	54	79	5.05	19.02	0.6	
03-04-2024	11	15	6.2	6.93	0.73	26	62	6	17.1	0.71	45	90	5.73	21.99	0.68	16	58	5.22	9.47	0.48	59	85	5.11	14,32	0.6	
04-04-2024	19	29	6.22	8.95	0.77	23	91	6.06	24.16	0.59	48	88	5.53	30.25	0.62	19	57	4.83	9.9	1.21	42	92	5.37	15.07	0.59	
05-04-2024	11	25	6.15	9.26	0.76	35	86	6.02	33.75	0.95	41	82	5.88	24.5	0.46	21	73	4.66	9.84	0.57	39	91	5.31	14.26	0.59	
06-04-2024	46	95	6.13	9.27	0.85	42	87	5.98	29.99	0.82	56	83	6.00	25.47	0.49	29	93	5.38	9.91	0.89	29	87	5.32	16.18	0.58	
07-04-2024	58	93	6.13	9.35	0.87	47	81	5.99	29.2	0.73	34	74	5.92	23.17	0.39	26	78	4.82	9.7	1.02	24	60	5.25	15.98	0.62	
08-04-2024	33	90	6.21	8.45	0.82	29	81	5.96	21.96	0.83	31	86	6.29	24.36	0.45	20	64	4.94	9.57	0.86	34	88	5.26	15.81	0.58	
09-04-2024	26	58	6.22	7.69	0.77	25	76	6.05	21.42	0.82	35	81	5.72	16.37	0.52	18	47	5.19	9.63	0.74	41	73	5.15	12.37	0.54	
10-04-2024	21	44	6.05	7.63	0.7	17	62	6.1	13.71	0.6	26	67	5.34	13.3	0.46	18	53	5.54	10.66	1.68	35	58	5.59	19.15	0.46	
11-04-2024	18	35	5.98	8.12	0.95	19	57	6.06	18.36	0.81	26	67	5.84	17.96	0.7	18	46	5.24	9.71	1.23	35	73	7.37	63.42	0.6	
12-04-2024	_17	34	6.04	7.01	0.72	14	45	5.76	19.62	0.57	30	72	5.18	19.96	0.71	42	61	5.9	10.28	0.97	37	60	7.71	70.06	0.71	
13-04-2024	19	41	6.03	7.73	0.74	21	72	5.53	21.93	0.53	31	75	5.62	30.08	0.66	11	47	4.67	10.14	1.14	35	59	7.33	67.71	0.62	
14-04-2024	25	63	6.11	7.95	0.77	54	95	6.28	23.45	0.49	23	54	5.14	15.68	0.5	20	48	4.91	10.61	1.21	23	52	7.68	61.52	0.55	
15-04-2024	43	87	6.16	14.12	0.92	59	99	6.44	26.32	0.76	34	77	5.59	15.91	0.83	28	70	5.69	9.93	0.82	39	66	7.78	54.57	0.73	
16-04-2024	44	96	6.14	7.51	0.96	55	96	3.13	20.97	0.75	51	93	5.73	25.39	1.59	18	46	5.68	9.18	1.53	58	94	8.01	23.66	0.84	
17-04-2024	28	53	6.04	5.32	0.8	42	87	3	10.91	0.53	37	89	5.79	15.81	1.48	19	42	5.65	9.26	1.37	50	84	7.51	18.16	0.85	
18-04-2024	26	49	6.23	6.17	0.84	32	50	6.39	12.15	0.62	36	81	6.59	10.48	1.02	16	50	5.37	10.06	1.05	45	85	7.25	17.27	0.59	
19-04-2024	33	73	6.43	6.31	1.03	52	85	8.24	14.19	0.68	34	78	6.44	10.11	0.89	15	47	5.28	9.61	1.31	34	78	7.27	17.24	0.61	
20-04-2024	33	79	6.24	7.1	0.84	32	81	7.39	13.79	0.64	30	90	6.78	11.23	0.94	15	60	4.98	9.77	1.73	43	98	7.74	20.19	0.58	
21-04-2024	31	82	6.2	6.31	0.86	41	93	5.59	29.27	0.94	26	65	6.35	7.29	0.72	17	65	5.09	9.98	1.06	37	89	7.34	18.69	0.68	
22-04-2024	30	82	6.29	7.14	0.87	21	99	5.66	31.12	0.87	24	56	5.96	11.22	0.71	40	76	5.54	10.24	0.57	25	66	7.77	21.68	0.6	
23-04-2024	36	94	6.3	7.79	0.87	10	76	6.07	26.82	0.78	25	69	6.09	13.12	0.72	33	60	4.87	10.05	0.92	22	83	7.72	18.97	0.57	
24-04-2024	34	84	6.32	7.12	0.88	11	83	6.26	20.87	0.77	33	86	6.76	17.31	0.76	21	57	4.75	10.39	1.29	39	98	7.2	21.97	0.66	
25-04-2024	29	67	6.35	5.9	0.86	31	72	5.95	17.82	0.79	31	92	6.94	13.08	0.76	18	55	4.62	10.53	1.24	41	95	7.57	18.04	0.57	
26-04-2024	40	68	7.81	10.49	0.97	39	97	9.51	30.39	0.86	28	74	6.01	19.22	0.8	23	62	4.46	13.91	1.79	29	77	7.64	22.37	0.6	
27-04-2024	31	70	7.21	8.69	1.11	39	90	5.91	19.1	0.86	35	90	5.61	11.02	0.79	29	83	4.5	9.78	1.24	45	90	7.93	19.36	0.55	
28-04-2024	50	85	7.12	9.01	1.19	51	87	6.17	26.85	0.8	46	95	5.88	15.44	0.87	37	86	4.65	9.94	1.03	55	94	7.98	21.4	0.66	
29-04-2024	41	99	7.11	9.27	1.26	54	91	6.22	39.55	0.79	44	93	5.83	33.15	0.84	35	90	4.52	11.42	0.57	43	96	7.91	24.17	0.62	
30-04-2024	45	83	7.17	9.36	1.19	39	96	6.7	34.11	0.88	42	98	5.81	31.93	0.85	34	94	4.63	11.15	1.05	42	95	7.57	22.37	0.6	

 Standards

 PM2.5 μg/m3
 60

 PM10 μg/m3
 100

 (SO2), μg/m3
 80

 (NOX), μg/m3
 80

 CO(mg/m3)
 2

Prepared By

Dr.P.P.Nandusekar Manager (Environment)

Location		Near Kası	ımata Ten	nple			Near C	oke Oven	Plant			1	Near Goa Ga	te			Near	MSEB Substa	tion		Near Dolvi Village					
Date	PM2.5	PM10	SO2	NOX	co	PM2.5	PM10	SO2	NOX	со	PM2.5	PM10	SO2	NOX	co	PM2,5	PM10	SO2	NOX	со	PM2.5	PM10	SO2	NOX	со	
DD-MM-YYYY	μg/m3	µg/m3	μg/m3	μg/m3	mg/m3	μg/m3	μg/m3	μg/m3	µg/m3	mg/m3	μg/m3	µg/m3	μg/m3	μ g/m3	mg/m3	μg/m3	μg/m3	µц/m3	μg/m3	mg/m3	µg/m3	μg/m3	μg/m3	μg/m3	mg/m3	
01-05-2024	29	70	7.18	6.65	1	29	71	5.73	20.91	0.59	19	69	5.18	16.48	0.78	22	68	4.58	12.27	1.97	36	77	7.51	20.67	0.52	
02-05-2024	40	91	8.27	7.27	1.98	31	95	7.38	22.69	0.82	31	90	4.98	18.35	0.96	15	48	4.67	11.11	1.16	38	91	7.23	17.18	0.64	
03-05-2024	31	74	7.58	8.4	1.05	35	72	4.24	25.34	0.77	29	92	4.83	18.1	0.97	19	58	4.85	11.11	1.42	41	97	7.31	18.53	0.65	
04-05-2024	27	63	7.39	6.83	0.98	45	88	6.49	19.34	0.69	24	61	6.03	10.07	0.82	19	62	4.85	11.74	1.18	33	64	7.66	17.87	0.56	
05-05-2024	33	85	7.46	6.88	1.05	19	48	5.77	11.35	0.77	23	54	5.73	9.28	0.87	15	50	5.28	12.16	2.05	32	57	7	17.59	0.56	
06-05-2024	16	37	7.33	6.1	0.96	14	73	7.08	13.27	0.74	18	50	5.82	8.89	0.72	13	38	4.92	13.24	1.39	26	52	7.58	18.49	0.5	
07-05-2024	42	90	7.55	6.94	1.28	19	87	6.16	17.55	0.76	22	72	5.79	15.52	1.09	11	26	4.78	11.41	1.17	16	57	7.44	16.27	0.46	
08-05-2024	26	67	7.49	6	0.98	13	59	6.08	13.31	0.71	18	57	5.2	10.98	0.89	13	36	4.81	13.19	1.42	23	58	7.29	14.74	0.44	
09-05-2024	16	37	7.26	5.53	0.94	13	33	6.09	11.8	0.67	17	44	5.05	15.64	0.74	20	36	4.88	9.94	1.14	27	45	7.78	15.99	0.51	
10-05-2024	17	42	7.16	5.29	0.97	11	33	6.36	11.76	0.61	17	44	5.48	16.21	0.69	22	71	5.18	11.43	1.3	26	47	8.06	15.13	0.46	
11-05-2024	28	69	7.22	9.65	1.05	19	80	5.76	16.66	0.62	21	59	5.72	10.7	0.75	23	72	5.29	15.34	2.13	32	81	7.5	17.64	0.52	
12-05-2024	19	44	7.25	7.82	1	17	52	6.05	13.56	0.64	21	54	5.73	6.21	0.74	26	66	5.14	10.87	2.09	22	72	7.35	14.86	0.46	
13-05-2024	45	88	7.22	9.35	1.36	28	81	6.16	17.53	0.82	27	82	5.32	7.75	0.86	30	79	5.73	9.88	1.46	25	72	7.5	16.84	0.56	
14-05-2024	38	96	7.25	9.39	1.4	33	71	5.99	40.62	0.98	43	95	5.52	11.75	1.07	32	85	5.93	10.87	1.67	42	87	8.37	20.28	0.74	
15-05-2024	44	69	7.5	9.94	1.55	31	89	6.16	29.16	0.83	39	87	5.64	12.87	1.2	21	47	5.47	9.96	0.97	48	88	8.74	21.43	0.8	
16-05-2024	43	88	7.53	16.79	1.31	30	70	6.01	16.08	0.9	29	67	5.55	8.17	0.77	NA	NA	5.06	9.82	1.11	56	77	6.79	17.59	0.61	
17-05-2024	21	37	7.75	14.71	1.64	27	88	6.4	23.41	1.09	32	76	6.08	10.56	1.02	39	82	5.13	9.63	1.06	29	65	7.57	20.31	0.74	
18-05-2024	34	74	7.41	11.55	1.05	20	62	5.96	12.34	0.68	26	62	6.07	10.01	0.89	36	58	5.29	9.79	0.93	36	61	7.71	15.22	0.5	
19-05-2024	56	89	7.31	9.49	1.01	16	49	6.06	7.38	0.62	25	72	6.05	15.35	0.93	47	64	5.65	9.27	0.68	38	68	7.85	14.25	0.51	
20-05-2024	54	90	7.62	8.83	1.17	17	92	6.22	9.72	0.66	29	62	6.15	19.71	1.38	21	58	5.34	10.03	0.83	40	74	7.26	15.91	0.64	
21-05-2024	20	52	7.26	8.16	0.96	17	66	6.13	11.74	0.63	37	93	6.59	25.69	0.91	28	64	5.2	11.32	0.88	37	68	7.62	14.62	0.45	
22-05-2024	33	81	7.64	9.12	0.78	20	86	6.01	12.09	0.57	34	80	6.2	16.15	1.13	46	66	5.47	10.1	0.8	38	72	7.29	14.36	0.48	
23-05-2024	22	53	8.41	8.77	0.43	13	84	5.93	10.29	0.46	30	74	6.28	13.84	0.99	21	66	5.31	10.36	0.86	42	89	6.77	14.85	0.45	
24-05-2024	37	90	8.59	7.74	0.47	14	81	6.04	10.05	0.59	27	71	6.47	12.94	0.82	20	70	5.42	10.63	0.91	38	77	5.96	14.75	0.43	
25-05-2024	50	70	8.48	7.18	0.34	15	88	6.15	8.49	0.67	30	68	6.2	16.1	0.88	19	67	7.14	12.06	1.22	35	88	6.95	14.18	0.42	
26-05-2024	16	29	8.46	6.66	0.33	10	27	5.83	7.71	0.48	31	77	6.49	14.13	0.98	20	86	8.78	10.59	1.17	20	86	7.48	12.43	0.41	
27-05-2024	20	50	8.43	6.39	0.34	15	34	6.09	6.94	0.57	41	85	7.44	24.06	1.43	12	46	8.19	19.85	0.78	51	83	6.8	13.58	0.45	
28-05-2024	15	34	8.53	6.3	0.31	20	40	5.93	7.29	0.52	42	91	7.42	17.69	1.17	15	66	5.79	11.45	1.27	54	89	7.12	13.82	0.46	
29-05-2024	31	89	8.77	6.65	0.49	48	90	5.98	7.15	0.54	41	94	7.08	17.65	1.53	13	50	5.86	10.12	0.84	49	95	7.27	14.59	0.46	
30-05-2024	56	75	7.63	8.98	0.8	56	79	6.09	8.35	0.62	30	75	6.65	16.75	0.88	21	94	5.8	10.35	1.07	47	97	6.5	13.91	0.45	
31-05-2024	23	63	5.91	9.75	0.64	56	64	6.05	9.15	0.66	25	64	6.34	11.84	0.73	19	78	6.41	11.33	1.68	15	62	7.77	14.7	0.41	
Max (μg/m3)	56	96	9	17	2	56	95	7	41	1	43	95	7	26	1.53	47	94	9	20	2	56	97	9	21	1	
Min (µg/m3)	15	29	6	5	0	10	27	4	7	0	17	44	5	6	0.69	11	26	5	9	1	15	45	6	12	0	
98%tile(μg/m3)	56	93	9	16	2	56	93	7	34	1	42	94	7	25	1.47	46	89	8	17	2	55	97	9	21	1	
Standards	60	100	80	80	2	60	100	80	80	2	60	100	80	80	2	60	100	80	80	2	60	100	80	80	2	

Prepared By
Dr.P.P.Nandusekar
Manager (Environment)

Location		Near Kasu	mata Ten	nple			Near C	oke Oven	Plant			1	Vear Goa Ga	te			Noar	MSEB Substa	tion		Near Dolvi Village					
Date	PM2.5	PM10	SO2	NOX	со	PM2.5	PM10	SO2	NOX	со	PM2.5	PM10	SO2	NOX	co	PM2.5	PM10	502	NOX	со	PM2.5	PM10	SO2	NOX	CO	
DD-MM-YYYY	µg/m3	µg/m3	μg/m3	μg/m3	mg/m3	µg/m3	μg/m3	μ μ/m 3	μg/m3	mg/m3	μg/m3	μg/m3	μg/m3	μg/m3	mg/m3	μg/m3	μg/m3	jug/m3	µg/m3	mg/m3	μg/m3	μ μ/m3	μg/m3	μg/m3	mg/m3	
01-06-2024	12	29	5.72	8.75	0.46	27	45	6.19	20.62	0.68	19	53	6.52	12.07	0.82	17	59	6.52	10.44	1.58	20	86	6.55	13.87	0.44	
02-06-2024	28	35	5.83	8.66	0.54	44	99	6.11	19.14	0.67	21	53	7.04	11.04	0.71	18	70	6.21	50.38	1.43	19	59	6.93	12.78	0.41	
03-06-2024	39	38	6.23	12.87	1.24	59	65	6.13	16.33	0.76	26	57	7.48	12.07	0.77	13	40	6.38	24.53	1.52	28	58	8.04	16.55	0.52	
04-06-2024	46	53	6.28	27.08	0.73	44	41	6	24.65	0.73	26	67	7.23	22.08	0.8	28	81	6.54	31.41	1.37	36	80	6.99	20.96	0.47	
05-06-2024	27	40	6.39	16.91	1.05	39	89	6	16.81	0.61	25	68	6.88	17.75	2.69	18	65	5.9	32.15	1.04	29	60	7.64	16.28	0.47	
06-06-2024	57	50	6.85	18.57	1.61	56	79	5.96	13.23	0.48	25	57	6.89	9.7	0.67	17	66	5.55	16.74	1.05	27	49	7.59	15.4	0.4	
07-06-2024	20	51	6.13	13.05	0.5	38	68	6.08	13.15	0.75	30	74	7	13.97	0.67	21	97	5.07	11.93	0.7	37	79	7.64	16.7	0.42	
08-06-2024	55	54	6.33	14.37	1.35	44	96	5.98	16.95	1	25	54	7.22	11.36	0.67	19	62	5.41	11.32	1.11	24	51	7.79	16.19	0.44	
09-06-2024	57	53	6.54	11.29	1.89	55	64	5.87	12.26	0.82	22	46	7.25	11.75	1.05	15	20	5.51	13.92	0.58	26	40	9.02	14.97	0.6	
10-06-2024	20	60	6.33	1.26	0.78	26	43	5.96	9.36	0.83	21	43	6.9	15.14	0.89	11	21	5.9	12.11	0.55	18	34	7.85	14.62	0.46	
11-06-2024	42	54	6.51	5.98	1.1	39	89	5.91	9.58	0.81	23	49	6.78	14.73	1.62	11	15	6.29	18.31	0.51	13	43	6.14	15.16	0.52	
12-06-2024	48	54	7.03	17.69	1.46	51	74	6.24	14.81	0.58	30	72	7.11	20.91	2.02	13	35	6.6	12.36	0.48	18	44	7.99	15.59	0.54	
13-06-2024	NA	44	7.59	19.07	1.75	60	60	6.34	15.9	0.7	12	35	7.06	7.93	0.66	12	19	6.94	12.67	0.58	9	26	7.95	14.6	0.55	
14-06-2024	NA	39	7.5	21.08	1.95	49	96	5.11	13.61	0.54	14	30	7.17	9	0.92	12	16	7.25	11.52	0.58	4	22	7.78	13.81	0.44	
15-06-2024	58	59	7.1	20.15	2.01	50	59	5.52	14.85	0.53	32	80	8.17	9.35	0.82	14	28	7.5	11.8	0.58	6	26	7.57	13.12	0.46	
16-06-2024	49	44	7	16.67	1.69	52	59	6.22	10.48	0.63	38	85	7.69	15.96	1.51	13	20	7.89	10.72	0.62	19	51	8.24	12.9	0.51	
17-06-2024	25	88	7.73	18.83	1.59	42	69	6	12.02	0.69	23	61	7.6	13.24	1.07	14	34	8.42	10.6	0.7	39	67	6.28	14.5	0.49	
18-06-2024	36	75	7.04	17.16	1.61	34	88	6.09	9.03	0.66	33	94	7.36	15.45	1.24	17	50	8.79	10.36	0.87	43	72	6.88	16.9	0.84	
19-06-2024	51	68	6.91	19.67	2.03	42	75	6.13	9.48	0.57	45	75	7.41	15.05	1.36	13	28	9.06	10.41	0.77	46	68	7.38	16.22	0.77	
20-06-2024	39	88	8.69	22	1.88	32	81	6.21	7.58	0.58	19	54	7.73	12.57	1.14	15	17	9.81	12.91	0.72	40	57	8.25	15.65	0.74	
21-06-2024	40	63	7.84	21.21	1.54	20	92	6.23	6.92	0.74	22	_ 53	7.92	21.25	1.78	6	35	10.45	12.83	0.96	58	96	7.61	17.62	0.88	
22-06-2024	56	90	12.6	49.92	0.93	29	79	6.14	8.6	0.85	22	41	7.65	11.42	0.75	NA	30	10.74	12.7	0.96	24	51	8.34	15.17	0.53	
23-06-2024	NA	NA	NA	NA	NA	31	57	6.38	8.8	0.5	32	83	7.77	14.49	1.43	NA	54	11.24	12.63	0.86	25	77	7.06	14.44	0.49	
24-06-2024	NA	NA	NA	NA	NA	52	95	6.09	9.3	0.6	27	67	7.62	13.13	1.16	NA	64	11.3	13.65	0.86	19	34	7.79	13.15	0.39	
25-06-2024	NA	NA	NA	NA	NA	54	75	6.06	11.51	0.63	24	71	7.49	6.75	0.5	NA	83	11.59	11.64	0.88	29	38	6.88	12.62	0.39	
26-06-2024	NA	NA	NA	NA	NA	28	68	5.96	11.84	0.61	28	64	7.96	11.35	0.77	NA	21	11.49	12.16	0.89	38	54	6.81	15.7	0.88	
27-06-2024	NA	NA	NA	NA	NA	45	43	6.12	10.78	0.51	23	42	7.49	10.02	0.67	NA	NA	NA	NA	NA	25	35	8.29	14.48	1.03	
28-06-2024	NA	NA	NA	NA	NA	28	83	6.22	9.76	0.54	22	38	7.24	11.41	0.6	NA	NA	NA	NA	NA	27	50	6.96	15.02	1.07	
29-06-2024	NA	NA	NA	NA	NA	47	90	6.12	11.75	0.66	27	59	7.16	14.44	0.73	NA	NA	NA	NA	NA	53	88	8.43	17.4	1.29	
30-06-2024	NA	NA	NA	NA	NA	46	55	5.97	9.89	0.6	26	76	7.29	17.94	1.54	NA	NA	NA	NA	NA	43	55	8.04	21.43	1.95	
Max (µg/m3)	58	90	13	50	2	60	99	6	25	1	45	94	8	22	2.69	28	97	12	50	2	58	96	9	21	2	
Min (µg/m3)	12	29	6	1	0	20	41	5	7	0	12	30	7	7	0.50	6	15	5	10	0	4	22	6	13	0	
98%tile(µg/m3)	57	89	11	40	2	59	97	6	22	1	41	88	8	22	2.30	25	90	12	41	2	55	91	9	21	2	
Standards	60	100	80	80	2	60	100	80	80	2	60	100	80	80	2	60	100	80	80	2	60	100	80	80	2	

Showing NA due to the Aqms station is off because rain water is passing in aqms station

Prepared By Dr.P.P.Nandusekar Manager (Environment)

Location		Near Ka	sumata T	emple			Near C	oke Oven	Plant	1		1	Near Goa Ga	ite		Near MSEB Substation						Near Dolvi Village					
Date	PM2.5	PMIO	SO2	NOX	со	PM2,5	PM10	SO2	NOX	со	PM2.5	PM10	SO2	NOX	со	PM2,5	PM10	SO2	NOX	со	PM2.5	PM10	SO2	NOX	co		
DD-MM-YYYY	μg/m3	μg/m3	μg/m3	µg/m3	mg/m3	μg/m3	μg/m3	µg/m3	μg/m3	mg/m3	μg/m3	μg/m3	μg/m3	μg/m3	mg/m3	μg/m3	μg/m3	μg/m3	μg/m3	mg/m3	μg/m3	μg/m3	µg/m3	μg/m3	mg/m3		
01-07-2024	NA	NA	6.78	5.00	1.73	17	24	6.48	8.01	0.49	27	79	6.94	14.89	1.2	NA	NA	NA	NA	NA	41	83	8.42	42.69	3.35		
02-07-2024	23	90	6.6	16.41	1.27	9	78	6.21	8.84	0.52	41	96	7.66	39.79	2.64	NA	NA	NA	NA	NA	59	80	8.97	56.75	1.36		
03-07-2024	22	84	6.8	15.45	1.09	10	32	6.35	10.03	0.48	37	95	7.73	26.99	2.44	NA	NA	NA	NA	NA	53	87	7.51	68.3	2.54		
04-07-2024	28	46	6.73	11.57	0.93	12	22	5.79	9.25	0.6	41	84	7.8	34	4.3	NA	NA	NA	NA	NA	41	72	7.78	49.6	1.4		
05-07-2024	45	87	7.01	5.69	0.87	11	19	6.29	10.33	0.6	41	76	8.31	30.38	3.15	14	42	10.32	15.06	2.15	50	86	9.36	57.77	2.04		
06-07-2024	18	50	7.43	11.89	0.8	7	17	6.11	8.09	0.58	51	78	8.13	43.77	5.31	86	77	11.36	21.79	1.48	32	95	7.75	42.3	1		
07-07-2024	40	83	7.85	15.33	0.99	10	19	4.08	9.63	0.62	44	78	8.18	33.58	6.13	13	39	10.54	11.27	2.15	39	70	7.06	32.67	1.13		
08-07-2024	32	83	8.53	32.37	2.75	13	80	6.26	11.35	0.85	13	15	7.81	7.93	4.12	20	9	12.43	17.42	2.07	9	10	5.66	16.16	0.41		
09-07-2024	NA	NA	NA	NA	NA	17	90	8.14	11.3	0.72	19	24	7.59	8.44	0.67	11	16	11.33	13.03	1.52	14	24	7.06	20.37	0.7		
10-07-2024	NA	NA	NA	NA	NA	31	80	6.44	13.54	0.63	24	37	8.05	10.92	0.68	14	39	10.26	11.34	0.95	20	33	10.02	22.11	0.97		
11-07-2024	NA	NA	NA	NA	NA	51	87	6.95	10.37	0.73	25	29	8.29	11.84	0.87	12	16	8.41	13.28	0.66	14	22	8.17	21.42	0.64		
12-07-2024	NA	NA	NA	NA	NA	27	85	6.45	10.94	0.71	20	25	8.21	22.59	1.29	17	21	9.2	13.65	1.02	17	29	7.11	24.41	0.71		
13-07-2024	NA	NA	NA	NA	NA	23	82	7.3	11.55	0.62	26	39	8.65	23.87	1.82	9	25	9.03	13.06	0.78	19	46	7.96	25.15	0.88		
14-07-2024	NA	NA	NA	NA	NA	17	67	5.91	12.33	1.03	25	36	8.38	19.22	1.84	33	75	9.34	13.36	1.3	15	36	7.59	22.02	0.74		
15-07-2024	NA	NA	NA	NA	NA	14	69	6.62	11.76	0.62	18	21	7.75	16.12	0.87	13	18	9.3	14.98	0.81	15	25	6.64	19.14	0.47		
16-07-2024	NA	NA	NA	NA	NA	20	82	8.06	9.64	0.61	17	25	8.27	10.79	0.75	12	22	9.47	13.65	0.69	24	64	13	27.47	11		
17-07-2024	NA	NA	NA	NA	NA	18	79	12.7	11.47	0.63	17	29	7.79	11.54	1.16	15	42	9.71	18.97	0.7	16	48	9.33	24.6	0.82		
18-07-2024	NA	NA	NA	NA	NA	14	81	7.38	10.11	0.78	17	26	7.82	15.45	1.84	17	47	10.03	19.7	0.92	31	62	7.42	27.77	0.88		
19-07-2024	NA	NA	NA	NA	NA	14	50	7.71	8.16	0.81	25	40	8.06	13.03	1.96	22	59	10.14	25.2	1.01	26	86	7.82	31.55	1.19		
20-07-2024	NA	NA	NA	NA	NA	13	43	8.05	8.93	0.66	30	49	7.95	18.58	2.85	13	27	10.66	18.22	0.75	55	85	7.91	39.77	1.48		
21-07-2024	NA	NA	NA	NA	NA	7	55	8.46	9.77	0.57	33	58	8.34	25.44	3.8	22	61	10.25	16.06	0.79	33	84	7.47	34.65	1.08		
22-07-2024	NA	NA	NA	NA	NA	8	31	8.81	7.96	0.57	41	74	8.22	33.03	3.67	27	78	10.48	16.16	0.86	30	84	7.81	43.24	1.1		
23-07-2024	NA	NA	NA	NA	NA	16	34	9.09	6.2	0.57	46	76	8.52	43.74	3.3	37	83	10.81	24.47	1.01	21	35	7.89	24.13	0.49		
24-07-2024	NA	NA	NA	NA	NA	14	27	9.26	7.07	0.57	44	78	8.77	40.91	4.4	51	88	11.3	22.73	1.75	20	30	6.51	17.63	0.4		
25-07-2024	NA	NA	NA	NA	NA	7	84	9.42	8.51	0.55	43	79	8.63	41	3.23	66	85	11.9	24.31	1.77	22	19	7.49	16.4	0.43		
26-07-2024	NA	NA	NA	NA	NA	10	20	9.63	8.89	0.46	50	89	8.91	41.73	4.94	56	81	11.87	21.83	0.19	33	69	8.55	19.42	0.38		
27-07-2024	NA	NA	NA	NA	NA	11	20	9.87	8.06	0.42	48	92	10.06	49.08	3.96	NA	62	10.02	9.55	2.67	29	64	4.98	21.57	0.41		
28-07-2024	NA	NA	NA	NA	NA	9	33	10.2	7.82	0.5	54	90	9.42	45.86	3.63	NA	63	9.84	9.12	2	35	50	6.13	17.48	0.38		
29-07-2024	NA	NA	NA	NA	NA	14	41	11	8.61	0.69	45	89	8.94	41.94	4.79	NA	51	10.22	11.52	2.16	39	78	6.89	19.75	0.42		
30-07-2024	NA	NA	NA	NA	NA	10	30	11.8	8.43	0.68	44	79	9.31	40.5	4.07	NA	27	10.07	9.54	2.03	27	58	7.7	21.66	0.65		
31-07-2024	NA	NA	NA	NA	NA	10	20	12.3	7.57	0.6	42	89	9.57	42.83	1.41	NA	67	9.94	8.74	2.26	29	40	8.4	19.65	0.36		
Max (µg/m3)	45	90	9	32	3	51	90	13	14	1	54	96	10	49	6	86	88	12	25	3	59	95	13	68	3		
Min (μg/m3)	18	46	7	5	1	7	17	4	6	0	13	15	7	8	1	9	9	8	9	0	9	10	5	16	0		
(µg/m3)	30	75	7	14	1	15	51	8	10	1	34	60	8	28	3	26	49	10	16	1	29	57	8	30	1		
Standards	60	100	80	80	4	60	100	80	80	4	60	100	80	80	4	60	100	80	80	4	60	100	80	80	4		
Thermine NIA due to th				Transfer .		or in some	4.474.4																				

Showing NA due to the Aqms station is off because rain water is passing in aqms station

Prepared By Dr.P.P.Nandusekar Manager (Environment)

Location		Near	Kasumata T	Cemple			Near C	oke Oven I	Plant			1	Near Goa Ga	te			No	ar MSE8 Sub	station			No	ear Dolvi Villa	ie-	.(4)
Date	PM2.5	PM10	SO2	NOX	со	PM2.5	PM10	SO2	NOX	со	PM2.5	PM10	SO2	NOX	со	PM2.5	PM10	502	NOX	со	PM2.5	PM10	SO2	NOX	со
DD-MM-YYYY	µg/m3	µg/m3	ру/т3	µg/m3	mg/m3	μ լ /m3	μg/m3	μg/m3	µg/m3	mg/m3	μg/m3	pg/m3	µg/m3	μg/m3	mg/m3	μg/m3	µу/m3	μg/m3	μg/m3	nig/ni3	μg/m3	µg/m3	μg/m3	µg/m3	mg/m3
01-08-2024	NA	NA	NA	NA	NA	14	17	12.7	8.17	0.48	41	92	9.61	42.46	2.99	NA	45	10.2	10.74	2.09	23	34	5.77	16.35	0.36
02-08-2024	NA	NA	NA	NA	NA	10	12	12.7	8.8	0.44	37	74	9.25	41.28	2.73	NA	48	10.7	20.41	2.09	36	73	5.4	35.65	0.78
03-08-2024	NA	NA	NA	NA	NA	7	15	12.9	7.84	0.47	44	79	9.6	43.63	2.41	NA	23	10.93	13.67	2.04	23	78	4.9	37.88	0.77
04-08-2024	NA	NA	NA	NA	NA	7	20	12.9	8.2	0.56	34	69	9.02	31.6	2.86	NA	25	11.29	16.29	2.08	3	90	7.81	45.34	1.7
05-08-2024	NA	NA	NA	NA	NA	12	16	13.8	9.6	0.49	29	63	8.25	27.7	1.99	NA	24	11.44	13.81	1.09	2	82	6.71	42.93	1.74
06-08-2024	NA	NA	NA	NA	NA	11	39	13.1	10.85	0.46	30	67	8.27	31.29	2.78	NA	31	12.33	14.91	2.16	4	37	8.77	23.73	0.42
07-08-2024	NA	NA	NA	NA	NA	10	74	12.2	11.34	0.52	34	87	9	34.19	0.49	NA	75	11.6	14.78	2.36	30	39	5.68	23.07	0.45
08-08-2024	NA	NA	NA	NA	NA	13	73	12	11.19	0.59	21	49	8.8	16.97	0.27	NA	65	11.77	13.28	2.23	37	55	7.32	26.05	0.44
09-08-2024	NA	NA	NA	NA	NA	7	84	12.4	11.27	0.57	23	60	8.64	14.7	0.35	NA	93	12.04	14.14	1.86	33	73	7.52	26.3	0.58
10-08-2024	NA	NA	NA	NA	NA	8	95	11.9	12.18	0.51	26	65	9.26	21.44	0.94	NA	40	12.24	13.53	0.16	21	43	6.64	24.04	0.47
11-08-2024	NA	NA	NA	NA	NA	26	92	11.4	9.57	0.61	23	63	9.32	24.14	1.07	NA	29	12.1	16.03	0.03	22	49	5.84	24.84	0.51
12-08-2024	NA	NA	NA	NA	NA	23	89	11.1	12.66	0.53	17	44	8.88	17.79	1.04	NA	61	11.88	12.55	0.45	21	46	5.72	20.91	0.55
13-08-2024	NA	NA	NA	NA	NA	9	94	11.4	13.08	0.48	22	60	8.71	11.57	0.57	NA	83	12.35	14.44	0.93	27	70	6.54	21	0.43
14-08-2024	NA	NA	NA	NA	NA	17	58	13	10.26	0.55	18	45	9.1	7.28	0.4	40	84	12.48	12.12	2.55	30	78	6.76	23	0.41
15-08-2024	NA	NA	NA	NA	NA	18	94	11.9	10	0.64	17	47	8.68	7.87	0.39	29	87	11.34	11.22	2.73	31	90	8.19	25.87	0.45
16-08-2024	NA	NA	NA	NA	NA	14	93	11.4	11.8	0.55	20	58	9.72	8.73	0.52	20	56	12.37	14.65	2.03	37	95	8.9	24.1	0.42
17-08-2024	NA	NA	NA	NA	NA	20	86	11.5	11.67	0.59	19	56	9.35	7.95	0.46	31	86	12.99	13.93	1.51	32	79	7.72	24.13	0.45
18-08-2024	NA	NA	NA	NA	NA	17	81	12.7	12.84	0.82	16	37	8.82	7.53	0.71	29	83	13.27	12.83	2.84	24	58	6.09	20.98	0.49
19-08-2024	NA	NA	NA	NA	NA	12	82	11.8	18.26	1.13	19	41	9.9	5.94	0.85	26	76	13.07	12.89	2.22	13	52	6.31	20.75	0.58
20-08-2024	NA	NA	NA	NA	NA	9	. 68	12.4	17.73	0.87	19	32	8.89	10.45	0.77	13	28	13.23	13.56	1.27	8	39	7.25	20.09	0.54
21-08-2024	NA	NA	NA	NA	NA	15	63	12.8	14.1	0.76	18	37	5.06	7.64	0.59	20	56	11.72	11.55	1.29	19	52	8.09	22.2	0.55
22-08-2024	NA	NA	NA	NA	NA	24	70	11.4	15.67	0.49	19	46	7.43	13.44	0.72	14	36	10.14	10.94	0.96	25	58	6.55	25.75	0.5
23-08-2024	NA	NA	NA	NA	NA	18	78	6.73	16.84	0.52	11	38	6.39	6.53	0.93	8	11	10.71	9.52	0.94	13	38	7.81	20.88	0.58
24-08-2024	NA	NA	NA	NA	NA	5	68	6.77	14.02	0.7	25	58	6.7	15.63	1.09	24	55	10.74	10.62	1.12	2	21	6.54	24.8	0.64
25-08-2024	NA	NA	NA	NA_	NA	8	8	7.67	9.29	0.55	43	79	7.07	26.88	1.79	29	68	10.9	22.67	1.21	14	61	6.59	25.61	0.68
26-08-2024	NA	NA	NA	NA	NA	8	9	6.75	9.07	0.51	46	93	7.12	31.98	2.86	13	25	11.22	14.26	0.94	11	40	6.16	19.75	1.64
27-08-2024	NA	NA	NA	NA	NA	8	10	5.25	8.3	0.44	32	70	6.68	19.96	2.24	9	13	10.9	9.94	0.93	45	79	7.49	62.96	2.03
28-08-2024	NA	NA	NA	NA	NA	8	21	6.95	9.33	0.44	27	65	6.71	15.79	1.54	9	17	10.99	10.94	0.94	40	81 82	7.28	52.57 59.24	2.03
29-08-2024	NA	NA	NA	NA	NA	9	76	8.18	11.53	0.49	27	75	6.67	12.98	0.76	32	24	11.12	11.21	0.96	50		6.61	28,45	0.91
30-08-2024	NA	NA	NA	NA	NA	11	91	9	12.52	0.56	19	54	6.63	15.91	1.52	14	32	11.21	8.72	1.94	21	36	7.02	22.11	0.91
31-08-2024	NA	NA	NA	NA	NA	22	79	8.92	13.99	0.56	21	54	6.86	18.32	0.68	27	61	11.69	9.35	2.11	50	95	9	63	2
Max (μg/m3)	0	0	0	0	0	26	95	14	18	1	46	93	10	44	3	40	93	13	23	0	2	21	5	16	0
Min (µg/m3)	0	0	0	0	0	5	8	5	8	0	11	32	5	6	0	8	11			2	23	59	7	29	1
(µg/m3)	#DIV/0!	#DIV/0!	#DIV/01	#D1V/0!	#DIV/0!	13	60	11	12	1	26	60	8	19	1	21	50	12	13	4	60	100	80	80	4
Standards	60	100	80	80	4	60	100	80	80	4	60	100	80	80	4	60	100	80	80	4	OU	100	ου	00	4

Showing NA due to the Aqıns station is off because rain water is passing in aqıns station

Prepared By Dr.P.P.Nandusekar Manager (Environment)

Location					Near C	oke Oven I	lant				lear Goa Ga	te			Ne	ar MSEB Sub	station			No	ar Dolvi Villas	ic m	i i		
Date	PM2.5	PM10	SO2	NOX	со	PM2.5	PM10	SO2	NOX	со	PM2.5	PM10	SO2	NOX	со	PM2.5	PM10	502	NOX	со	PM2.5	PM10	SO2	NOX	со
DD-MM-YYYY	μg/m3	µg/m3	µg/m3	μg/m3	mg/m3	µg/m3	µg/m3	μg/m3	μg/m3	mg/m3	μg/m3	μg/m3	μg/m3	µg/m3	mg/m3	µg/m3	μg/m3	μg/m3	µg/m3	mg/m3	μg/m3	μg/m3	µg/m3	μg/m3	mg/m3
01-09-2024	NA	NA	NA	NA	NA	19.32	45.49	7.32	12.27	0.61	20.02	51.24	6.87	12.38	0.48	36.44	68.98	11.56	9.91	2.6	18.22	55.11	8.11	20	0.43
02-09-2024	NA	NA	NA	NA	NA	23.9	87.84	6.8	14.18	0.67	22.05	45.65	6.72	9.99	0.53	32.67	57.16	11.34	9.54	2.3	11.22	33.31	7.55	19.2	0.44
03-09-2024	NA	NA	NA	NA	NA	12.73	77.26	7.15	15.4	0.59	31.16	67.06	7.64	30.81	1.55	37.31	64.44	11.24	9.23	1.83	33.4	40.48	7.78	22.63	0.4
04-09-2024	NA	NA	NA	NA	NA	18.49	92.2	7.25	10.6	0.47	28.72	76.62	7.77	26.81	1.26	34.93	53.3	11.62	11.77	1.78	29.63	47.61	6.4	23.3	0.45
05-09-2024	NA	NA	NA	NA	NA	11.86	27.79	7.41	12.59	0.51	29.86	70.08	7.8	30.23	1.51	59.15	90.05	11.65	11	2.0	15.21	40.83	5.7	19.74	0.37
06-09-2024	NA	NA	NA	NA	NA	5.87	69.33	6.9	12.47	0.68	31.91	79.84	7.95	28.37	1.61	37.93	63.37	10.27	9.92	1.67	20.7	42.52	6.9	21.46	0.41
07-09-2024	NA	NA	NA	NA	NA	0.92	94.87	7.57	15.42	0.64	21.85	54.74	8.02	21.17	1.09	23.31	34.88	9.04	9.19	1.57	34.04	46.55	6.68	19.41	0.56
08-09-2024	NA	NA	NA	NA	NA	2.94	90.03	7.65	14.5	0.51	18.62	46.41	7.97	19.94	1.05	16.23	35.16	8.79	7.6	1.28	21.72	26.77	7.58	17.77	0.45
09-09-2024	NA	NA	NA	NA	NA	13.13	93.81	7.68	14.95	0.59	17.54	38.93	7.4	15.77	0.63	26.43	65.7	9.34	7.93	1.33	14.62	29.43	7.62	18.52	0.43
10-09-2024	NA	NA	NA	NA	NA	14.35	93.4	7.77	13.73	0.51	24.95	52.88	7.05	18.25	1.23	17.82	17.44	9.36	8.04	1.3	9.42	41.26	7.21	22.25	0.5
11-09-2024	NA	NA	NA	NA	NA	17.43	91.26	7.95	12.72	0.43	21.53	47.86	6.88	16.93	1.14	16.78	19.95	11.78	8.11	1.31	25.24	43.38	6.44	20.26	0.53
12-09-2024	NA	NA	NA	NA	NA	35.58	91.59	8.09	14.04	0.43	21.59	59.02	7.15	14.23	1.1	25.26	35.37	11.71	8.54	1.33	40.68	71.62	6.03	20.56	0.64
13-09-2024	NA	NA	NA	NA	NA	18.5	91.31	8.13	13.73	0.48	24.91	60.4	6.54	19.19	1.52	59.73	44.37	12.24	9.03	1.34	37.3	72.37	5.99	21.05	0.49
14-09-2024	NA	NA	NA	NA	NA	22.49	94.87	8.16	16.96	0.53	23.32	61.69	6.74	19.63	1.71	19.67	33.64	13.03	9.24	1.42	48.56	86.83	7.46	28.05	0.55
15-09-2024	NA	NA	NA	NA	NA	17.93	95.09	8.18	16.58	0.82	16.23	32.57	6.65	10.96	0.66	12.14	18.36	11.41	8.45	1.62	28.79	34.99	7.04	22.15	0.66
16-09-2024	NA	NA	NA	NA	NA	16.65	91.64	8.24	15.58	0.62	15.94	28.8	6.75	10.21	0.74	14.65	31.37	9.9	8	1.48	19.22	31.55	7.43	22.39	0.58
17-09-2024	NA	NA	NA	NA	NA	23.54	90.98	8.24	12.35	0.72	18.78	37.87	6.9	10.34	0.52	34.55	75.17	9.64	8.69	2.14	12.02	52.42	8.18	25.46	0.5
18-09-2024	NA	NA	NA	NA	NA	21.54	91.59	10.7	24.63	0.61	24.5	62.15	6.41	14.68	0.75	23.84	50.97	9.75	7.9	1.59	23.24	58.04	7.02	21.78	0.5
19-09-2024	NA	NA	NA	NA	NA	39.99	96.09	12.71	19.74	0.51	23.55	52.82	6.13	9.83	0.67	21.97	51.7	9.81	7.86	1.57	29.89	62.99	6.47	22.71	0.45
20-09-2024	NA	NA	NA	NA	NA	44.84	90.96	11.02	17.58	0.59	21.3	48.68	5.76	9.47	0.57	35.33	82.66	10.14	7.95	1.86	41.47	66.81	7.8	25.1	0.48
21-09-2024	NA	NA	NA	NA	NA	26.83	96.29	13.06	15.3	0.58	20.63	46.23	6.49	11.81	0.56	39.28	92.45	10.04	9.36	2.34	14.85	69.75	7.47	28.99	0.49
22-09-2024	NA	NA	NA	NA	NA	28.38	94.51	13.28	17.28	0.62	21.54	51.09	6.46	10.92	0.57	48.66	95.18	10.27	8.98	2.99	21.62	78.38	7.17	26.59	0.47
23-09-2024	NA	NA	NA	NA	NA	18.51	47.3	13.49	20.55	0.47	28.57	55.2	6.3	8.49	0.57	51.5	92.09	10.43	9.32	3.05	43.86	93.4	6.8	22.37	0.46
24-09-2024	NA	NA	NA	NA	NA	23.81	88.13	13.33	17.18	0.95	18.84	26.01	6.73	7.7	0.64	40.25	85.78	10.56	8.64	3.02	24.64	32.52	7.65	18.14	0.5
25-09-2024	NA	NA	NA	NA	NA	18.82	94.04	13.85	16.36	0.66	22.08	34.93	7.16	15.63	1.24	14.49	21.79	10.39	9.75	1.73	27.7	37.67	6.18	24.88	0.66
26-09-2024	NA	NA	NA	NA	NA	15.21	39.33	13.41	10.97	0.61	18.73	36.8	7.54	16.33	0.96	20.09	28.52	10.59	13.23	1.75	20.34	17.59	6.81	22.91	0.5
27-09-2024	NA	NA	NA	NA	NA	33.92	95.06	13.09	12.31	0.57	31.51	66.64	8.83	25.61	2.25	28.85	48.37	10.23	8.4	1.73	13.71	51.03	6.75	26.24	0.65
28-09-2024	NA	NA	NA	NA	NA	43.79	92.86	12.04	12	0.57	18.18	39.7	7.99	15.2	1.4	27.85	45.03	10.32	8.02	1.7	18.79	36.04	7.29	23.94	0.67
29-09-2024	NA	NA	NA	NA	NA	42.19	94.04	10.36	15.04	0.52	23.89	56.88	7.58	13.43	1.19	20.15	36.96	10.4	7.51	1.57	15.29	24.02	6.85	19.71	0.43
30-09-2024	NA	NA	NA	NA	NA	47.29	91.08	9.88	13.68	0.75	16.8	34.02	7.46	8.88	0.67	53.34	91.13	10.63	11.34	2.47	24.03	37.03	7.45	22.31	0.5
Max (μg/m3)	0	0	0	0	0	47	96	14	25	1	32	80	9	31	2	60	95	13	13	3	49	93	8	29	0
Min (μg/m3)	0	0	0	0	0	1	28	7	11	0	16	26	6	8	0	12	17	9	8	1	9	18	6	18	1
(µg/m3)	#D1V/0!	#DIV/0!	#DIV/0!	#DIV/0!	#D1V/01	23	84	10	15	1	23	51	7	16	1	31	54	11	9	2	25	49	7	22	1
Standards	60	100	80	80	4	60	100	80	80	4	60	100	80	80	4	60	100	80	80	4	60	100	80	80	4

Showing NA due to the Aqms station is off because rain water is passing in aqms station

Prepared By Dr.P.P.Nandusekar Manager (Environment)

AMBA RIVER COKE LIMITED

Integrated Steel Mill Complex

Geetapuram, Dolvi, Tal - Pen, Dist - Raigad

A) STACK EMISSION:

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack	of the	Pollution Control unit	Date & time of Monitoring	Production fig. of the unit, during the	Velocity m/sec	Pa	rameter	s mg/Nm	3
			(m)	Stack (m)	provided	1	monitoring period (TPD)		Particulate Matter (PM)	SO ₂	NOx	СО
I	Coke Oven Plant		•		Plant Cap	acity: 1.0 MTPA		"		iin ii		
1	Coke Oven Battery A &	Coke Oven Battery A	145	4.50	Natrual Draft	09/04/24 15:00 Hrs	1412	8.4	42	140.7	142.3	165.0
	B(Under firing)	& B				09/05/24 15:00 Hrs	1302	10.5	46	110.0	121.5	128.3
						01/06/24 11:45 Hrs	1358	12.6	39	114.0	192.0	141.0
						05/07/24 16:45 Hrs	1669	12.0	40	91.8	59.6	143.1
		li .				05/08/24 10:30 Hrs	1763	7.8	42	123.0	77.1	195.0
					I	05/09/24 16:00 Hrs	1915	8.8	43	96.0	122.2	128.9
2	Ground De-dusting system	Coke Oven Battery A	31	2.50	Bag Filters	09/04/24 16:30 Hrs	1412	5.3	2	NA	NA	NA
	(Charging Side)	& B				09/05/24 14:15 Hrs	1302	6.2	6	NA	NA	NA
						01/06/24 14:05 Hrs	1358	5.8	10	NA	NA	NA =
						18/07/24 10:25 Hrs	1594	4.8	8	NA	NA	NA
	(41)					05/08/24 14:10 Hrs	1763	5.2	10	NA	NA	NA
						05/09/24 10:00 Hrs	1915	6.2	14	NA	NA	NA
3	Ground De-dusting system	Coke Oven Battery A	31	2.50	Bag Filters	08/04/24 10:40 Hrs	1395	4.6	2	NA	NA	NA
	(pushing Side)	& B		2		09/05/24 15:35 Hrs	1302	5.2	4	NA	NA	NA
						01/06/24 15:25 Hrs	1358	5.0	9	NA	NA	NA
						18/07/24 12:35 Hrs	1594	4.9	5	NA	NA	NA
	E					05/08/24 16:25 Hrs	1763	5.9	9	NA	NA	NA
					0	05/09/24 12:10 Hrs	1915	6.8	15	NA	NA	NA
4	Boiler	WHRB Boiler	40	2.00	*	25/04/24 10:00 Hrs	472.0	5.9	16	13.0	16.0	18.0
						10/05/24 10:00 Hrs	227.0	5.9	15	17.0	123.2	100.3
						05/06/24 15:25 Hrs	352.0	6.0	16	14.0	16.0	18.0
						03/07/24 10:15 Hrs	259.0	7.5	4	12.0	14.0	17.0
						03/08/24 10:45 Hrs	401.0	9.5	6	26.0	25.0	19.0
						18/09/24 10:00 Hrs	333.0	7.5	17	26.0	25.0	19.0

Preapared By
Dr.P.P.Nandusekar
Manager (Environment)

Sr. No.	Name of the Plant and Stack		Height of the Stack	of the	Pollution Control unit	Date & time of Monitoring	Production fig. of the unit, during the	Velocity m/sec	Par	rameter	s mg/Nm	3
			(m)	Stack (m)	provided		monitoring period (TPD)		Particulate Matter (PM)	SO ₂	NOx	СО
5	Dry Quenching Stack	Primary & Secondary	30	2.50	Bag Filters	08/04/24 12:10 Hrs	1395.0	7.9	18	NA	NA	NA
		Dust Catcher				23/05/24 10:00 Hrs	1333.0	6.5	15	NA	NA	NA
						05/06/24 16:25 Hrs	1310.0	7.8	14	NA	NA	NA
						18/07/24 15:35 Hrs	1594.0	5.3	4	NA	NA	NA
						09/08/24 16:05 Hrs	1746.0	5.2	7	NA	NA	NA
						07/09/24 10:20 Hrs	1986.0	6.2	15	NA	NA	NA
6	DG Set Stack	NA	30	0.35	NA	08/04/24 14:25 Hrs	1395.0	5.6	15	NA	NA	NA
						27/05/24 14:25 Hrs	1354.0	6.8	13	NA	NA	NA
	3					05/06/24 10:25 Hrs	1310.0	7.0	15	NA	NA	NA
						21/07/24 16:25 Hrs	1643.0	6.4	15	NA	NA	NA
						11/08/24 10:25 Hrs	1700.0	7.2	10	NA	NA	NA
						07/09/24 12:25 Hrs	1986.0	4.2	16	NA	NA	NA
							CPCB Norm	ıs	< 50	<800	< 500	NA
II	Pellet Plant	*			Plant Ca	apacity: 4.0 MTPA						
1	Dedusting 1 & 2	Mixer Unit	30.5	1.15	Bag Filters	15/04/24 14:35 Hrs	11685.0	5.3	12	NA	NA	NA
						27/05/24 10:05 Hrs	10489.0	6.3	14	NA	NA	NA
						27/06/24 15:15 Hrs	12327.0	3.5	16	NA	NA	NA
						20/07/24 14:15 Hrs	10734.0	4.1	14	NA	NA	NA
						23/08/24 10:15 Hrs	12091.0	5.2	17	NA	NA	NA
						10/09/24 12:10 Hrs	12014.0	5.8	18	NA	NA	NA
2	Dedusting 3	Betonite Unit	30.5	0.89	Bag Filters	15/04/24 16:44 Hrs	11685.0	7.1	15	NA	NA	NA
	3					27/05/24 12:15 Hrs	10489.0	7.5	16	NA	NA	NA
						27/06/24 16:55 Hrs	12327.0	5.3	22	NA	NA	NA
						20/07/24 16:05 Hrs	10734.0	6.0	17	NA	NA	NA
	×	*				23/08/24 12:05 Hrs	12091.0	7.5	19	NA	NA	NA
						10/09/24 15:20 Hrs	12014.0	6.9	17	NA	NA	NA
3	Main ESP	Induration Furnace	100	6.25	ESP	15/04/24 11:30 Hrs	11685.0	15.6	25	18.0	21.0	33.0
l li			. L		Ī	22/05/24 11:05 Hrs	12098.0	15.6	20	18.0	21.0	33.0
					Ì	27/06/24 12:05 Hrs	12327.0	14.2	17	21.0	28.0	42.0
						20/07/24 10:35 Hrs	10734.0	14.5	16	17.0	24.0	19.0
					Ì	23/08/24 14:15 Hrs	12091.0	14.5	24	17.0	24.0	19.0
					1	10/09/24 10:00 Hrs	12014.0	8.0	20	18.0	16.0	28.4

Preapared By Dr.P.P.Nandusekar

Manager (Environment)

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack	of the	Pollution Control unit	Date & time of Monitoring	Production fig. of the unit, during the	Velocity m/sec	Pai	rameter	s mg/Nm ²	mg/Nm ³	
			(m)	Stack (m)	provided		monitoring period (TPD)		Particulate Matter (PM)	SO ₂	NOx	СО	
4						12/04/24 16:20 Hrs	12232.0	5.7	17	NA	NA	NA	
				5		15/05/24 15:35 Hrs	12169.0	4.8	18	NA	NA	NA	
	Dadwatin a 7	Hoorth Lavor	30.5	1.35	Bag Filters	24/06/24 10:00 Hrs	12260.0	3.2	18	NA	NA	NA	
	Dedusting 7	Hearth Layer	30.3	1.55	Dag Fillers	12/07/24 10:20 Hrs	2503.0	4.5	14	NA	NA	NA	
						21/08/24 10:15 Hrs	12051.0	5.0	12	NA	NA	NA	
						16/09/24 10:20 Hrs	12103.0	4.6	15	NA	NA	NA	
5						12/04/24 14:40 Hrs	12232.0	6.4	18	NA	NA	NA	
						15/05/24 15:35 Hrs	12169.0	5.5	17	NA	NA	NA	
	5	E' -1 D 14 C'1-	20.5	2	D Ellean	24/06/24 12:20 Hrs	12260.0	3.8	22	NA	NA	NA	
	Dedusting 8	Final Product Silo	30.5	2	Bag Filters	12/07/24 12:10 Hrs	2503.0	4.8	16	NA	NA	NA	
1						21/08/24 12:22 Hrs	12051.0	6.2	15	NA	NA	NA	
						16/09/24 12:20 Hrs	12103.0	7.0	13	NA	NA	NA	
6						30/04/24 10:00 Hrs	10529.0	4.1	15	NA	NA	NA	
						15/05/24 15:35 Hrs	12169.0	3.8	14	NA	NA	NA	
			-0	0.40	D 500	24/06/24 14:20 Hrs	12260.0	4.0	16	NA	NA	NA	
	Dedusting 9	Final Product Silo	30.5	0.69	Bag Filters	12/07/24 14:30 Hrs	2503.0	3.8	13	NA	NA	NA	
			A			21/08/24 15:18 Hrs	12051.0	5.1	16	NA	NA	NA	
						16/09/24 14:00 Hrs	12103.0	5.8	17	NA	NA	NA	
7						30/04/24 12:15 Hrs	10529.0	6.1	23	NA	NA	NA	
						27/05/24 11:05 Hrs	10489.0	7.2	21	NA	NA	NA	
						24/06/24 16:23 Hrs	12260.0	7.2	12	NA	NA	NA	
1	Discharge ESP	Furnace Discharge	40	1.80	ESP	12/07/24 16:25 Hrs	2503.0	6.5	10	NA	NA	NA	
						21/08/24 16:45 Hrs	12051.0	7.8	14	NA	NA	NA	
						16/09/24 16:35 Hrs	12103.0	7.2	20	NA	NA	NA	
							CPCB Norm	IS	< 150	<100	< 500	<1	

Preapared By Dr.P.P.Nandusekar Manager (Environment)

b) FUGITIVE EMISSION STATUS:

Sr.	Location of the Station	Date of Monitoring	Parameter
No.			PM10 (μg/m 3)
A	Coke Oven Plant		
	CPCB Norms (µg/m3)		3000
1	Near Coal Blending Area	18-04-2024	1679
		03-05-2024	1535
		13-06-2024	633
	-0	17-07-2024	1871
	E	13-08-2024	960
		16-09-2024	1738
2	Near Secondary Coal Crusher Area	18-04-2024	1566
		02-05-2024	1657
		13-06-2024	430
		17-07-2024	1263
	Î	13-08-2024	527
2	No. Colo Con Date A N. CA	16-09-2024	1839
3	Near Coke Oven Battery A Warf Area	18-04-2024	1754
		03-05-2024 14-06-2024	1665 1531
		18-07-2024	1219
		14-08-2024	619
		16-09-2024	1758
4	Near Coke Oven Battery B Warf Area	18-04-2024	1752
	Near coke oven Buttery B Wall Filed	02-05-2024	1405
		14-06-2024	1479
		17-07-2024	1784
	8	14-08-2024	1670
		16-09-2024	1834
5	Near Coke Cutter Area	19-04-2024	1701
		03-05-2024	1714
		13-06-2024	1436
		18-07-2024	1713
		13-08-2024	1316
		17-09-2024	1720
6	Near Coke Screening Area	19-04-2024	1647
		02-05-2024	1231
		13-06-2024	1111
		17-07-2024	1578
	_	13-08-2024	1569
7	Near Sulphur Recovery Area	17-09-2024	1661
1	Theat Sulphul Recovery Area	19-04-2024 03-05-2024	1631 1702
		14-06-2024	1330
		18-07-2024	1008
	©	14-08-2024	1090
		17-09-2024	1537
В	Pellet Plant		
	CPCB Norms (μg/m3)		3000
1		20.04.2024	
1	Near Mixer Building Area	20-04-2024	1833
		15-05-2024 03-06-2024	1578
		15-07-2024	1659
		21-08-2024	1473
		19-09-2024	1666
2	Near Bentonite Storage Area	20-04-2024	1708
-	John Storago Fried	16-05-2024	1730
	Ē	04-06-2024	1650
		16-07-2024	1527
		22-08-2024	1485
		19-09-2024	1761

Preapared By
Dr.P.P. Nandusekar
Manager (Environment)

b) FUGITIVE EMISSION STATUS:

Sr.	Location of the Station	Date of Monitoring	Parameter
No.			PM10
			$(\mu g/m 3)$
			1 . 0 .
3	Near Additive Ball Mill Area	20-04-2024	1677
		15-05-2024	1687
	1 - 41	04-06-2024	1719
		15-07-2024	1866
		21-08-2024	1705
	**	19-09-2024	1849
4	Near Ball Mill Area	20-04-2024	1667
		16-05-2024	1574
		03-06-2024	1786
	¥1	15-07-2024	1760
		21-08-2024	1088
		18-09-2024	1663
5	Near Indurating Machine	22-04-2024	1756
		15-05-2024	1796
		03-06-2024	1619
		15-07-2024	1166
		22-08-2024	1682
		18-09-2024	1682
6	Near Hearth Layer Area	22-04-2024	1634
		15-05-2024	1606
		03-06-2024	1682
		16-07-2024	1759
		22-08-2024	1235
		18-09-2024	1876
7	Near Product Storage Area	22-04-2024	1691
		16-05-2024	1425
		03-06-2024	1728
		16-07-2024	1722
		22-08-2024	1452
		18-09-2024	1722

1/2/2/2

Preapared By Dr.P.P.Nandusekar Manager (Environment)

C. WATER POLLUTION STATUS:

Water Consumption/tonne of product produced:

Water Consumption / MT of Coke Produced

: 2.047 M³/MT, from April, 2024 to September, 2024 (For COP only).

Water Consumption / MT of Pellet Produced

: 0.125 M³/MT, April, 2024 to September, 2024 (For Pellet only).

Effluent discharged to

: No Discharge

Date & Time	Location of the	Type of the	Flow Rate			Parame	ters Mon	itored (mg/l,	except p	H)		Quantity of the treatment
of the sample	Sampling Point	Treatment provided	Average	pН	TSS	Phenol	Cyanide	BOD	COD	Amm.	0 & G	effluent reused / reciculated
-			(m ³ /day)		74 =					Nitrogen		& what purpose
From April, 2024 to September, 2024	COBP Effluent	BOD Plant - oil separation pool and air floatation pool, anaerobic pool, anoxia pool, aerobic pool and contact oxidization pool, Activated Carbon, Pressure Sand Filter	107.31 m³/h	7.3	788.3	BLQ	BLQ	4.1	42.1	BLQ	BLQ	After treatment 100 % quantity of treated water reused for coke-quenching. No discharge of waste water.
	Pellet Plant						No Dis	charge				

QUALITY OF VARIOUS EFFLUENT STREAMS AT THE BOUNDARY LINE OF THE PLANT:

Sr. No.	Name of the Stream		Date & Time			Parame	eters (mg	g/I, expect pH	I & Temp.	.)	
		Production Unit contributing to the Stream	of Monitoring	Temp. (°C)	рН	TSS	D.O.	C.O.D.	B.O.D.	0 & G	IRON
Not applicabl	Not applicable, as we are not discharging any wastewater from the Plant.										

STATUS OF SEWAGE TREATMENT PLANT (STP):

Date & Time of	Name of the STP	Quantity of the Effluent	Paramete	rs (mg/l, e	expect pH	I & Temp	0.)	Remark
Monitoring			Temp. (°C)	pН	TSS	BOD	COD	
From April, 2024 to September, 2024	BOD Plant	After treatment 100 % quantity used for coke-quenching or gardening.						All septic tank water Connected to BOD Plant

Preapared By Or.P.P.Nandusekar

D. HAZARDOUS WASTE & SOLID WASTE MANAGEMENT:

a. Status of Solid Waste Management:

Sr. No.	Name of the Plant	Type of Waste	Quantity of Solid Waste generated per month in MT from April, 2024 to September, 2022	Method of reuse / disposal
1	Coke Oven Plant	Coke Breeze, Coke & Coal Dust	11778.5	100 % Reused Coke & Coal Dust in Coke Oven process and Coke Breeze in Pellet, Sinter Plant.
2	Pellet Plant	ESP & Bag filter dust from dedusting system	25225	100 % Reused in Pellet Process

b. Status of Hazardous Waste Management:

Sr. No.	Name of the Plant	Quantity of Hazardous Waste generated per month	Type of Hazardous Waste / Category	Method of handling, transportation & disposal
	Coke Oven Plant	Nil	Used oil (Category No. 5.1)	NA
		Nil	Impure Sulphur Paste (Category No. 13.6)	M/s. Mumbai Waste Management Ltd. (MWML),Taloja,Raigad
1		25.6	Decanter Sludge (Category No. 13.4)	100 % Reused in Coke Oven process
		155 kg	Waste /residu containig Oil (oil Soack Cotton) (Category No. 5.2)	disposed in HSM furnace.
		Nil	Used oil (Category No. 5.1)	NA
2	Pellet Plant	1060KG	Waste /residu containig Oil (oil Soack Cotton) (Category No. 5.2)	Disposed in HSM furnace.

Preapared By Dr.P.P.Nandusekar Manager (Environment)

			1	Noise Level Leq. dB(A)		
C		Distance		Day Night		
Sr. No	Location	from the Source (m)	Date of Monitoring	dB(A)	dB(A)	
A	Coke Oven Plant					
1	Near Coke Oven -Battary Pushing		08-04-2024	83	71	
	side		14-04-2024	78	72	
	*		04-05-2024	70	68	
			24-05-2024	68	66	
			05-06-2024	83	71	
	,	_	20-06-2024	78	72	
	*	5	06-07-2024	70	68	
	LA.		20-07-2024	68	66	
			08-08-2024	70	68	
			20-08-2024	68	66	
			06-09-2024	83	71	
			20-09-2024	78	72	
2	Near Coke Oven -Battary Coke		08-04-2024	82	79	
	side		14-04-2024	81	77	
			04-05-2024	64	63	
			24-05-2024	66	64	
			05-06-2024	82	79	
		_	20-06-2024	81	77	
	0	5	06-07-2024	64	63	
			20-07-2024	66	64	
			08-08-2024	65	63	
			20-08-2024	66	64	
			06-09-2024	82	79	
			20-09-2024	81	77	
3	Near Coke cutter/coke screening		08-04-2024	77	72	
_	area		14-04-2024	74	72	
	arca		04-05-2024	72	70	
			24-05-2024	74	71	
			05-06-2024	77	72	
			20-06-2024	74	72	
		5	06-07-2024	72	70	
			20-07-2024	74	71	
			08-08-2024	73	70	
			20-08-2024	75	70	
			06-09-2024	77	72	
			20-09-2024	74	72	
4	Near BOD Plant area		08-04-2024	72	70	
4	Near BOD Frant area		14-04-2024	80	73	
			04-05-2024	76	74	
			24-05-2024	77	72	
			05-06-2024	72	70	
		5	20-06-2024	80	73	
			06-07-2024	76	74	
			20-07-2024	77	73	
			08-08-2024	76	74	
			20-08-2024	78	75	
			06-09-2024 20-09-2024	72 80	70 73	

Preapared By Dr.P.P.Nandusekar Manager (Environment)

)			Noise Level	Leq. dB(A)
		Distance		Day	Night
Sr.	Location	from the	Date of		
No	200000	Source	Monitoring	dB(A)	dB(A)
		(m)		uD(A)	u D(11)
5	Near Coke Oven Main office Area		08-04-2024	77	75
5	Coke Oven Main office Area		14-04-2024	80	73
			04-05-2024	68	66
			24-05-2024	67	64
			05-06-2024	77	75
		_	20-06-2024	80	73
		5	06-07-2024	68	66
			20-07-2024	67	64
			08-08-2024	69	66
			20-08-2024	67	65
			06-09-2024	77	75
			20-09-2024	80	73
6	Near Coal blending Area	*	08-04-2024	82	75
O	Trour Cour biolianig ruea		14-04-2024	79	76
			04-05-2024	70	68
		5	24-05-2024	72	70
			05-06-2024	82	75
			20-06-2024	79	76
			06-07-2024	70	68
			20-07-2024	72	70
			08-08-2024	70	68
			20-08-2024	72	70
			06-09-2024	82	75
			20-09-2024	79	76
7	Near Ammonia scrubber Area		08-04-2024	80	72
			14-04-2024	82	80
			04-05-2024	76	73
			24-05-2024	74	72
	-		05-06-2024	80	78
		5	20-06-2024	82	80
		'	06-07-2024	76	73
			20-07-2024	74	72
			08-08-2024	78	75
			20-08-2024	75	72
			06-09-2024	80	78
			20-09-2024	82	80
8	Near Secondary Crusher Area		08-04-2024	83	80
			14-04-2024	80	76
			04-05-2024	66	64
			24-05-2024	65	63
			05-06-2024	83	81
		5	20-06-2024	80	78
			06-07-2024	66	64
			20-07-2024	65	63
			08-08-2024	68	65
			20-08-2024	65	63
	*		06-09-2024		81
		ļ	20-09-2024	80	78

Preapared By
Dr.P.P.Nandusekar
Manager (Environment)

				Noise Level Leq. dB(A)		
		Distance		Day	Night	
Sr. No	Location	from the Source (m)	Date of Monitoring	dB(A)	dB(A)	
В	Pellet Plant				(4	
1	Near Ball Mill Area		08-04-2024	79	76	
			14-04-2024	80	74	
			04-05-2024	77	75	
		E1	23-05-2024	79	77	
			05-06-2024	79 80	76	
	Al .	5	20-06-2024 06-07-2024	80	77 75	
			20-07-2024	79	77	
			05-08-2024	78	76	
			17-08-2024	80	78	
	ā.		06-09-2024	79	76	
			20-09-2024	80	77	
2	Near Additive Ball Mill Area		08-04-2024	77	74	
			14-04-2024	82	78	
			04-05-2024	76	75	
			23-05-2024	75	73	
			05-06-2024	77	74	
			20-06-2024	82	78	
		5	06-07-2024	77	75	
			20-07-2024	76	73	
			05-08-2024	76	75	
			17-08-2024	75	73	
	1		06-09-2024	77	74	
					78	
2	N M ECD		20-09-2024	82		
3	Near Main ESP		08-04-2024	80	77	
			14-04-2024	82	81	
			04-05-2024	84	82	
			23-05-2024	82	80	
			05-06-2024	80	77	
		5	20-06-2024	82	81	
] 3		06-07-2024	84	82	
			20-07-2024	82	80	
			05-08-2024	84	82	
			17-08-2024	82	80	
			06-09-2024		77	
			20-09-2024	82	81	

Preapared By Dr.P.P.Nandusekar Manager (Environment)

				Noise Level Leq. dB(A)		
_		Distance		Day	Night	
Sr. No	Location	from the Source (m)	Date of Monitoring	dB(A)	dB(A)	
4	Near Product Storage Area		08-04-2024	82	81	
			14-04-2024	77	74	
			04-05-2024	74	72	
			23-05-2024	72	70	
			05-06-2024	83	80	
		5	20-06-2024	77	74	
			06-07-2024	74	72	
			20-07-2024	72	70	
			05-08-2024	75	72	
			17-08-2024	73	70	
			06-09-2024	83	80	
			20-09-2024	77	74	
5	Near Indurating area		08-04-2024	81	75	
			14-04-2024	76	71	
		5	04-05-2024	82	80	
			23-05-2024	80	78	
			05-06-2024	81	79	
			20-06-2024	76	74	
		3	06-07-2024	82	80	
			20-07-2024	80	78	
	-		05-08-2024	83	80	
			17-08-2024	80	78	
			06-09-2024	81	79	
			20-09-2024	76	74	
6	Near Hearth Layer Area		08-04-2024	78	73	
			14-04-2024	74	71	
	_		04-05-2024	78	76	
			23-05-2024	76	74	
			05-06-2024	78	75	
		5	20-06-2024	74	72	
		3	06-07-2024	78	76	
			20-07-2024	76	74	
			05-08-2024	80	76	
		1	17-08-2024	78	74	
			06-09-2024	78	75	
			20-09-2024	74	72	

Preapared By Dr.P.P.Nandusekar Manager (Environment)

F. STATUS OF CONSENTs:

S. No.	Acts	Consent Number	Valid w. e. f.	Validity upto
1	Under Section 26 of the Water (Prevention and Control of Pollution) Act, 1974 Under Section 21 of the Air (Prevention and Control of Pollution)		31/05/2022	31-05-2024 applied for renewal
	Act, 1981 and authorisation under rule 5 of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules, 2008		09-30-2022	30-09-2027

Preapared By

Dr.P.P.Nandusekar Manager (Environment)

Checked By
Kumar Cho Satish Kumar Choudhary

General Manager (Environment)

" Bureau Veritas (India) Pvt. Ltd. F2, Thiru Vi Ka Industrial Estate, Phase III, Ekkattuthangal, Guindy, Chennai - 600032, India - T: +91 44-49674040/28







Test Report No. INCHE24043120509044402

ULR No.: TC805724000019023F

Report Issue Date: 09 May 2024

TEST REPORT

BV Sample ID: 1534452 Date of commencing of testing: 29 Apr 2024 Sample Name**: Coke Oven Plant-1 Waste Water Date of completion of testing: 07 May 2024 Physical Description: Slightly turbid liquid 1Ltr Sample quantity / Package: 1Ltr Sample Information: Sampling Done by Laboratory BVILCH/QMS/SOP-012 Date of sampling / collection: 26 Apr 2024 Sampling location: Amba River Coke Limited Dolvi Works - Sampling / Collection done by: Mr. S. Anitharai	iscipline : roup :	Pollution and Environment	Sample receipt date :	29 Apr 2024	
Sample Name**: Coke Oven Plant-1 Waste Water Physical Description: Slightly turbid liquid 1 Ltr Sample Information: Sampling Done by Laboratory Sampling procedure: BVILCH/QMS/SOP-012 Date of sampling / collection: 26 Apr 2024 Sampling location: Amba River Coke Limited Dolvi Works - Sampling / Collection done by: Mr. S. Anitharai	•		Date of registration :	29 Apr 2024	
Sample quantity / Package: 1Ltr Sample Information: Sampling Done by Laboratory Sampling procedure: BVILCH/QMS/SOP-012 Date of sampling / collection: 26 Apr 2024 Sampling location: Amba River Coke Limited Dolvi Works - Sampling / Collection done by: Mr. S. Anitharai	•	Coke Oven Plant-1 Waste Water		'	
Sampling procedure: BVILCH/QMS/SOP-012 Date of sampling / collection: 26 Apr 2024 Sampling location: Amba River Coke Limited Dolvi Works - Sampling / Collection done by: Mr. S. Anitharai					
Sampling location : Amba River Coke Limited Dolvi Works - Sampling / Collection done by : Mr. S. Anitharai	ample Information:	Sampling Done by Laboratory			
Village: Juibapuji, Pen-Alibaug Road, Raigad - Maharashtra, 402107.		Amba River Coke Limited Dolvi Works - Pellet Plant, Jui Bapuji, Tal: Alibaug, Village: Juibapuji, Pen-Alibaug Road,			

No.	Test Parameters	Unit	Test Results	Test Method	LOQ
1	Ammonical Nitrogen as	mg/L	BLQ	APHA 23rd Edn-4500 NH3 B,C	1
	N				
2	Phenolic compounds as C ₆ H ₅ OH	mg/L	BLQ	APHA 23rd Edition 2017 5530 B,C	0.01
3	Cyanide as CN	mg/L	BLQ	APHA 23rd Ed. 4500 CN C,E	0.01
4	pH Value		6.45	APHA 23rd Ed. 4500H+B	1
5	Total Dissolved Solids	mg/L	436	APHA 23rd Ed. 2540 C	1
6	Total Suspended Solids	mg/L	6	APHA 23rd Ed. 2540 D	1
7	Oil and Grease	mg/L	BLQ	APHA 23rd Edition 2017 - 5520 O&G B	2
8	Chemical Oxygen Demand	mg/L	52	APHA 23rd Ed. 5220 B	5
9	Bio-Chemical Oxygen Demand - 27°C/3 days	mg/L	3.4	IS 3025 Part 44 : 1993	1

Abbreviations: LOQ: Limit of Quantification, BLQ: Below limit of quantification
** Indicates information supplied by the customer for which the laboratory has no control

Note: SAMPLE TESTED AS RECEIVED

Authorized Signatory

M.Ramesh

Manager

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- End of Report -



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SI. No.: 98878

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Bureau Veritas (India) Pvt. Ltd. F2, Thiru Vi Ka Industrial Estate, Phase III, Ekkattuthangal, Guindy, Chennai - 600032, اndia۔ T: +91 44-49674040/28







Test Report No. INCHE24051400608062512

ULR No.: TC805724000021554F

Report Issue Date:

08 Jun 2024

TEST REPORT

Report Issued To: Amba River Co	oke Limited		
Dolvi Works - Pellet Plant, Jui Bapu	iji, Tal: Alibaug, Village: Juibapuji, Pen-Alibau	g Road, Raigad - Maharashtra, 402107	7, India
Discipline :	Chemical	Sample receipt date :	23 May 2024
Group:	Pollution and Environment	Date of registration :	23 May 2024
BV Sample ID:	1551516	Date of commencing of testing:	24 May 2024
Sample Name**:	CUP-1 Outlet Water	Date of completion of testing:	28 May 2024
Physical Description:	Slightly turbid liquid		
Sample condition on receipt:	Good		
Sample quantity / Package:	1Ltr X 1No		
Sample Information:	Sampling Done by Laboratory		
Sampling procedure :	BVILCH/QMS/SOP-012	Date of sampling / collection :	20 May 2024
Sampling location :	Amba River Coke Limited Dolvi Works - Pellet Plant, Jui Bapuji, Tal: Alibaug, Village: Juibapuji, Pen-Alibaug Road, Raigad - Maharashtra, 402107.	Sampling / Collection done by :	Mr. S. Anitharaj

No.	Test Parameters	Unit	Test Results	Test Method	LOQ
1	pH Value	•	6.33	APHA 23rd Ed. 4500H+B	1
2	Oil and Grease	mg/L	BLQ	APHA 23rd Edition 2017 - 5520 O&G B	2
3	Bio-Chemical Oxygen Demand - 27°C/3 days	mg/L	3.8	IS 3025 Part 44 : 1993	1
4	Total Dissolved Solids	mg/L	398	APHA 23rd Ed. 2540 C	1
5	Ammonical Nitrogen as	mg/L	1.1	APHA 23rd Edn-4500 NH3 B,C	1
6	Total Suspended Solids	mg/L	8	APHA 23rd Ed. 2540 D	1
7	Chemical Oxygen Demand	mg/L	40	APHA 23rd Edition 2017 - 5220 C	5
8	Cyanide as CN	mg/L	BLQ	APHA 23rd Ed. 4500 CN C,E	0.01
9	Phenolic compounds as C ₆ H ₅ OH	mg/L	BLQ	APHA 23rd Edition 2017 5530 B,C	0.01

Abbreviations: LOQ: Limit of Quantification, BLQ: Below limit of quantification

** Indicates information supplied by the customer for which the laboratory has no control

Note: SAMPLE TESTED AS RECEIVED

Authorized Signatory

M.Ramesh

Manager

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- End of Report -

SI. No.: 115768



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Test Report No. INCHE24067400704064835

ULR No.: TC805724000028251F

Report Issue Date:

04 Jul 2024

TEST REPORT

Report Issued To: Amba River C	oke Limited			
Dolvi Works - Pellet Plant, Jui Bap	uji, Tal: Alibaug, Village: Juibapuji, Pen-Alibau	g Road, Raigad - Maharashtra, 402107	, India	
Discipline: Group: BV Sample ID: Sample Name**: Physical Description: Sample quantity / Package:	Chemical Pollution and Environment 1611831 COP-1 Outlet Water Slightly turbid liquid 1Ltr	Sample receipt date : Date of registration : Date of commencing of testing : Date of completion of testing :	28 Jun 2024 28 Jun 2024 29 Jun 2024 03 Jun 2024	
Sample Information:	Sampling Done by Laboratory			
Sampling procedure : Sampling location :	BVILCH/QMS/SOP-012 Amba River Coke Limited Dolvi Works - Pellet Plant, Jui Bapuji, Tal: Alibaug, Village: Juibapuji, Pen-Alibaug Road, Raigad - Maharashtra, 402107.	Date of sampling / collection : Sampling / Collection done by :	25 Jun 2024 S. Anitharaj	

No.	Test Parameters	Unit	Test Results	Test Method	LOQ
1	pH Value		8.59	APHA 23rd Ed. 4500H+B	1
2	Oil and Grease	mg/L	BLQ	APHA 23rd Edition 2017 - 5520 Q&G B	2
3	Bio-Chemical Oxygen Demand - 27°C/3 days	mg/L	3.0	IS 3025 Part 44 : 1993	1
4	Ammonical Nitrogen as	mg/L	BLQ	APHA 23rd Edn-4500 NH3 B,C	1
5	Total Suspended Solids	mg/L	6	APHA 23rd Ed. 2540 D	1
6	Chemical Oxygen Demand	mg/L	27	APHA 23rd Ed. 5220 B	5
7	Total Dissolved Solids	mg/L	1084	APHA 23rd Ed. 2540 C	1
8	Cyanide as CN	mg/L	BLQ	APHA 23rd Ed. 4500 CN C,E	0.01
9	Phenolic compounds as C ₆ H ₅ OH	mg/L	BLQ	APHA 23rd Edition 2017 5530 B,C	0.01

Abbreviations: LOQ: Limit of Quantification, BLQ: Below limit of quantification
** Indicates information supplied by the customer for which the laboratory has no control
Note: SAMPLE TESTED AS RECEIVED

Authorized Signatory

M.Ramesh

Manager

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https://www.bureauveritas.co.in/sites/gfilles/zypfnx556/filles/media/document/General Conditions of Service - June 2021-BVIL-revised.pdf. (2.) The information marked with (**) customer provided information for which the laboratory has no control. (3.) The test report shall not be reproduced in full and/or in part or be used for any promotional and/or publicity purpose without the prior written approval of the issuing authority. The laboratory is not responsible for the authenticity of photocopied test report. (4.) The test result relate only to the item tested at the time and place of testing. (5.) Issuance of a test report of Analysis is NOT an indication that the item(s) is (are) fif for any specific purpose nor does it release any other party from their respective obligations. The maximum amount Bureau Veritas shall be liable for under any circumstance are the fees paid by the Client for the services provided under its contract with the Client for services delivered herein. (6.) The test item will not be retained for more than 15 days for non-perishable and 7, days for perishable samples from the date of issue of test report except in case as required by applicable regulation. (7.) Bureau Veritas owes no duty to any third party entry the party of any information set out in this test report. Any third party of any information set out in this test report. Any third party of any information set out in this test report. Any third party of any information set out in this test report. Any third party of any information set out in this test report. Any third party of any information set out in this test report. Any third party of any information set out in this test report. Any third party of any information set out in this test report. Any third party of any information set out in this test report. Any third party of any information set out in this test report. A

- End of Report -



Page 1 Of 1

Bureau Veritas (India) Pvt. Ltd. F2, Thiru Vi Ka Industrial Estate, Phase III, Ekkattuthangal, Guindy, ^ Chennai - 600032, T- +91 44-49674040/28

A J







Test Report No. INCHE24079370802095339

ULR No.: TC805724000033802F

Report Issue Date: 02 Aug 2024

TEST REPORT

Report Issued To: Amba River Co	ke Limited		
Dolvi Works - Pellet Plant, Jui Bapu	ji, Tal: Alibaug, Village: Juibapuji, Pen-Alibau	g Road, Raigad - Maharashtra, 402107	, India
Discipline :	Chemical	Sample receipt date :	29 Jul 2024
Group:	Pollution and Environment	Date of registration :	29 Jul 2024
BV Sample ID :	1636688	Date of commencing of testing :	30 Jul 2024
Sample Name**:	Coke Oven - 1 Outlet Water	Date of completion of testing:	02 Aug 2024
Physical Description :	Clear liquid		
Sample condition on receipt :	Good		
Sample quantity / Package :	1Ltr X 1No		
Sample Information:	Sampling Done by Laboratory		
Sampling procedure :	BVILCH/QMS/SOP-012	Date of sampling / collection :	26 Jul 2024
Sampling location :	Amba River Coke Limited Dolvi Works - Pellet Plant, Jui Bapuji, Tal: Alibaug, Village: Juibapuji, Pen-Alibaug Road,	Sampling / Collection done by :	Mr. S.Anithraj

No.	Test Parameters	Unit	Test Results	Test Method	LOQ
1	Ammonical Nitrogen as	mg/L	BLQ	APHA 23rd Edn-4500 NH3 B,C	1
2 P	Phenolic compounds as C ₆ H ₅ OH	mg/L	BLQ	APHA 23rd Edition 2017 5530 B,C	0.01
3	Cyanide as CN	mg/L	BLQ	APHA 23rd Ed. 4500 CN C,E	0.01
4	pH Value	.e.;	7.39	APHA 23rd Ed. 4500H+B	1
5	Total Dissolved Solids	mg/L	690	APHA 23rd Ed. 2540 C	1
6	Total Suspended Solids	mg/L	4	APHA 23rd Ed. 2540 D	1
7	Oil and Grease	mg/L	BLQ	APHA 23rd Edition 2017 - 5520 O&G B	2
8	Bio-Chemical Oxygen Demand - 27°C/3 days	mg/L	3.6	3.6 IS 3025 Part 44 : 1993	
9	Chemical Oxygen Demand	mg/L	42	APHA 23rd Edition 2017 - 5220 C	5

Abbreviations: LOQ: Limit of Quantification, BLQ: Below limit of quantification

** Indicates information supplied by the customer for which the laboratory has no control

Note: SAMPLE TESTED AS RECEIVED

Raigad - Maharashtra, 402107.

Authorized Signatory

M.Ramesh

Manager

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the laboratory has no control. (3,) The test report shall not be reproduced in full and/or in part or be used for any promotional and/or publicity purpose without the prior written approval of the issuing authority. The
laboratory is not responsible for the authenticity of photocopied test report. (4) The test retent relate only to the item tested at the time and place of testing. (5) Issuance of a test report day authority. The
laboratory is not responsible for the submitment of photocopied test report. (4) The test retent relate only to the item tested at the time and place of testing. (5) Issuance of a test report dest proport. (4) Analysis is NOT an indication
that the item(s) is (are) fill for any specific purpose nor does it release any other party from their respective obligations. The maximum amount Bureau Veritas shall be liable for under any circumstance are the fees paid
by the Client for the services provided under its contract with the Client for services delivered herein. (6) The test item will not be retained for more than 15 days for non-perishable amplies
from the date of issue of test report except in case as required by applicable regulation. (7) Bureau Veritas owes no duty to any third party with respect to the results contained herein nor does Bureau Veritas some any
liability whatsoever with respect to the use by any third party of any information set out in this test report. Any third party relying on or using this report is responsible (or exercising its own independent) judgment with
regard to the information contained herein and releases Bureau Veritas from any liability string therefrom, (8). The tests marked

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Food Report INCHE2407937 (INCHE2407937-001) v1.PDF

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Sl. No.: 133771

Bureau Veritas (India) Pvt. Ltd. F2, Thiru Vi Ka Industrial Estate, Phase III, Ekkattuthangal, Guindy, Chennai - 600032, India T: +91,44-49674040/28







Test Report No. INCHE24090190903091302

ULR No.: TC805724000037988F

Report Issue Date:

03 Sep 2024

TEST REPORT

Report Issued To: Amba River Co	ke Limited			
Dolvi Works - Pellet Plant, Jui Bapuj	ji, Tal: Alibaug, Village: Juibapuji, Pen-Alibau	g Road, Raigad - Maharashtra, 402107	7. India	
Discipline :	Chemical	Sample receipt date :	28 Aug 2024	
Group:	Pollution and Environment	Date of registration :	28 Aug 2024	
BV Sample ID :	1683417	Date of commencing of testing:	28 Aug 2024	
Sample Name**:	Coke Oven - 1 Outlet Water	Date of completion of testing:	03 Sep 2024	
Physical Description :	Clear liquid			
Sample condition on receipt:	Good			
Sample quantity / Package:	1Ltr X 1No			
Sample Information:	Sampling Done by Laboratory		8	
Sampling procedure :	BV/SAR/F/SOP/001	Date of sampling / collection :	24 Aug 2024	
Sampling location :	Amba River Coke Limited Dolvi Works - Pellet Plant, Jui Bapuji, Tal: Alibaug,	Sampling / Collection done by :	Mr. S.Anitharaj	

Village: Juibapuji, Pen-Alibaug Road, Raigad - Maharashtra, 402107

No.	Test Parameters	Unit	Test Results	Test Method	LOQ
1	Ammonical Nitrogen as N	mg/L	BLQ	APHA 23rd Edn-4500 NH3 B,C	1
2	Phenolic compounds as C ₆ H ₅ OH	mg/L	BLQ	APHA 23rd Edition 2017 5530 B,C	0.01
3	Cyanide as CN	mg/L	BLQ	APHA 23rd Ed. 4500 CN C,E	0.01
4	pH Value	\&	7.45	APHA 23rd Ed. 4500H+B	1
5	Total Dissolved Solids	mg/L	698	APHA 23rd Ed. 2540 C	1
6	Total Suspended Solids	mg/L	4	APHA 23rd Ed. 2540 D	1
7	Oil and Grease	mg/L	BLQ	APHA 23rd Edition 2017 - 5520 O&G B	2
8	Bio-Chemical Oxygen Demand - 27°C/3 days	mg/L	4.0	IS 3025 Part 44 : 1993	1
9	Chemical Oxygen Demand	mg/L	38	APHA 23rd Edition 2017 - 5220 C	5

Abbreviations: LOQ: Limit of Quantification, BLQ: Below limit of quantification
** Indicates information supplied by the customer for which the laboratory has no control

Note: SAMPLE TESTED AS RECEIVED

Authorized Signatory

M.Ramesh

Manager

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https://www.bureauveritas.co.in/sites/g/files/xpfx56/files/media/document/General Conditions of Service - June 2021-BVIL-revised.pdf. (2.) The information marked with (**) customer provided information for which the laboratory has no control. (3.) The test report shall not be reproduced in full and/or in part or be used for any promotional and/or publicity purpose without the prior written approval of the issuing authority. The laboratory is not responsible for the authenticity of photocopied test report. (4.) The test result relate only to the item tested at the time and place of testing. (5.) Issuance of a test report of Analysis is NOT an indication that the item(s) is (are) fif for any specific purpose nor does it release any other party from their respective obligations. The maximum amount Bureau Veritas shall be liable for under any circumstance are the fees paid from their services provided under its contract with the Client for services delivered herein. (6.) The test item will not be retained for more than 15 days for non-pershable and 7 days for perishable samples its bull to the date of issue of test report except in case as required by applicable regulation. (7.) Bureau Verilas owes no duty to any third party with respect to the results contained herein nor does Bureau Verilas accept any liability whatsoever with respect to the use by any third party of any information set out in this test report. Any third party relying on or using this report is responsible for exercising its own independent with regard to the information contained herein and releases Bureau Verilas from any liability arising therefrom. (8.) The tests marked with (#) are subcontracted. (9.) This report is a computer-generated document with interpretations expressed in the report is based on the results obtained from the tested item. (12.) Sample on receipt to lab was

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Food_Report_INCHE2409019_(INCHE2409019-001)_v1.PDF

SI. No.: 142278

Bureau Veritas (India) Pvt. Ltd. F2, Thiru Vi Ka Industrial Estate, Phase III, Ekkattuthangal, Guindy, Chennai - 600032, India T: +91 44-49674040/28







Test Report No. INCHE24102051003091745

ULR No.: TC805724000044843F

Report Issue Date:

03 Oct 2024

TEST REPORT

	1201	ILLI OILI		
Report Issued To: Amba River C	oke Limited			
Dolvi Works - Pellet Plant, Jui Bap	uji, Tal: Alibaug, Village: Juibapuji, Pen-Alibau	g Road, Raigad - Maharashtra, 402107	', India	
Discipline : Group : BV Sample ID : Sample Name** :	Chemical Pollution and Environment 1714154 Coke Oven - 1 Outlet Water	Sample receipt date: Date of registration: Date of commencing of testing: Date of completion of testing:	25 Sep 2024 25 Sep 2024 26 Sep 2024 30 Sep 2024	
Physical Description : Sample quantity / Package :	Slightly turbid liquid 1Ltr X 1No	bate of completion of testing.	30 Sep 2024	
Sample Information:	Sampling Done by Laboratory			
Sampling procedure : Sampling location :	BV/SAR/F/SOP/001 Amba River Coke Limited Dolvi Works - Pellet Plant, Jul Bapuli Tal: Alibaun	Date of sampling / collection : Sampling / Collection done by :	21 Sep 2024 Mr. Anithraj	

Village: Juibapuji, Pen-Alibaug Road, Raigad - Maharashtra, 402107

No.	Test Parameters	Unit	Test Results	Test Method	LOQ
1	Ammonical Nitrogen as N	mg/L	BLQ	APHA 23rd Edn-4500 NH3 B,C	1
2	Phenolic compounds as C ₆ H ₅ OH =	mg/L	BLQ	APHA 23rd Edition 2017 5530 B,C	0.01
3	Cyanide as CN	mg/L	BLQ	APHA 23rd Ed. 4500 CN C,E	0.01
4	pH Value	-	7.74	APHA 23rd Ed. 4500H+B	1
5	Total Dissolved Solids	mg/L	1424	APHA 23rd Ed. 2540 C	1
6	Total Suspended Solids	mg/L	6	APHA 23rd Ed. 2540 D	1
7	Oil and Grease	mg/L	BLQ	APHA 23rd Edition 2017 - 5520 O&G B	2
8	Bio-Chemical Oxygen Demand - 27°C/3 days	mg/L	6.8	IS 3025 Part 44 : 1993	1
9	Chemical Oxygen Demand	mg/L	54	APHA 23rd Edition 2017 - 5220 C	5

Abbreviations: LOQ: Limit of Quantification, BLQ: Below limit of quantification

** Indicates information supplied by the customer for which the laboratory has no control

Note: SAMPLE TESTED AS RECEIVED

Authorized Signatory

M.Ramesh

Manager

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https://www.bureauverilas.co.in/sites/g/files/zypfmx556/files/media/document/General Conditions of Service - June 2021-BVIL-revised.pdf. (2.) The information marked with (**) customer provided information for which the laboratory has no control. (3.) The test report shall not be reproduced in full and/or in part or be used for any primetional and/or publicity purposes without the prior written approved at the issuing authority. The laboratory is not responsible for the authenticity of photocopied test report. (4.) The test result relate only to the item tested at the time and place of testing. (5.) Issuance of a test report of Analysis is NOT an indication by the Client for the services provided under its contract with the Client for services delivered herein. (6.) The test item will not be retained for more than 15 days for one-parishable and 7 days for perishable samples from the date of issue of test report axcept in case as required by applicable regulation. (7.) Bureau Verilas owes no duty to any third party with respect to the results contained herein nor does Bureau Verilas accept any liability whatsoever with respect to the use by any third party of any information set out in this set report. Any third party elying on or using this report is responsible for exercising its own independent judgement with regard to the information contained herein and releases Bureau Verilas from any liability arising therefrom. (8.) The tests marked with (#) are subcontracted. (9.) This report is a computer-generated document with interpretations expressed in the report is based on the results obtained from the tested term. (12.) Sample on receipt to lab was "found to be fit" for analysis.

- End of Report -



Page 1 Of 1

Food_Report_INCHE2410205_(INCHE2410205-001)_v1.PDF

SI. No.: 152229

Annexure 2

Environment Statement (Form 5) - Pellet Plant 1 at Amba River Coke Ltd (2023-24)



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2024

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000069992

Submitted Date

16-09-2024

PART A

Company Information

Company Name

AMBA RIVER COKE LIMITED(PRLLET PLANT-1))

Address

GEETA PURAM DOLVI

Plot no

1,8,9,10,11,12,13,46,47,49

Capital Investment (In lakhs)

119012

Pincode

402107

Telephone Number

9607971413

Region

SRO-Raigad II

Last Environmental statement submitted online

01111110

yes

Consent Valid Upto

2027-09-30

Industry Category Primary (STC Code) &

Secondary (STC Code)

Application UAN number

0000147985

Taluka

ALIBAG

Scale

LARGE

Person Name

DR.ANAND RAI

Fax Number

0000000

Industry Category

Red

Consent Number

Format 1.0 /CAC/UAN

NO.0000147985/CR/2301001229

Establishment Year

2014

Village

JUI BAPAJI DOLVI

City

PEN

Designation

VICE PRESIDENT (HOD-

ENVIRONMENT)

Email

anand.rai@jsw.in

Industry Type

R19 Coke making , liquefaction, coal tar distillation or fuel gas making

Consent Issue Date

2023-01-12

Date of last environment statement submitted

Sep 8 2023 12:00:00:000AM

Product Information

 Product Name
 Consent Quantity
 Actual Quantity
 UOM

 PELLET
 4000000
 3655792.116
 MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMNA00Ton/Y

Part-B (Water & Raw Material Consumption)

Water Consumption	on in m3/day for	Consent Qu	antity in m3/day	Actual Quantity in m3/c	lay
Process		0.00		0.00	
Cooling		3360.00		1405.00	
Domestic		36.00		34.00	
All others		0.00		0.00	
Total		3396.00		1439.00	
2) Effluent Generation	on in CMD / MLD				
Particulars TRADE EFFLUENT			Consent Quantity 0	Actual Quantity 0	UOM CMD
DOMESTIC EFFLUENT			15	14	CMD
	cess Water Consumption	(cubic meter of			
Name of Products (P			During the Previous financial Year	us During the curren Financial year	t UOM
PELLET (M3/UNIT OF PF	RODUCT)		0148	0.120	Ton/Y
2) David Maria 116	sumntion (Consumntion	of row motorial			
3) Raw Material Cons	sumption (consumption	OI TAW IIIALEITAI			
per unit of product) Name of Raw Materia		or raw material	During the Previous financial Year	During the current Financial year	иом
per unit of product)		or raw material			
per unit of product) Name of Raw Materia	als	or raw material	financial Year	Financial year	Ton/Ton
Name of Raw Material Iron ore fines -bacheli	als ES	or raw material	financial Year 0.55	Financial year 0.52	Ton/Ton
Name of Raw Material Iron ore fines -bacheli Iron ore fines -MEL FINE	ES ines high grade	or raw material	financial Year 0.55 0.033	Financial year 0.52 0	Ton/Ton Ton/Ton Ton/Ton
Per unit of product) Name of Raw Materia Iron ore fines -bacheli Iron ore fines -MEL FINE Iron ore fines -Odissa fi	ES ines high grade fines	or raw material	financial Year 0.55 0.033 0.042	Financial year 0.52 0 0.067	Ton/Ton Ton/Ton Ton/Ton Ton/Ton
per unit of product) Name of Raw Materia Iron ore fines -bacheli Iron ore fines -MEL FINE Iron ore fines -Odissa fi Iron ore fines -Jabalpur	ES ines high grade fines	or raw material	financial Year 0.55 0.033 0.042 0.014	Financial year 0.52 0 0.067 0.040	Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton
per unit of product) Name of Raw Materia Iron ore fines -bacheli Iron ore fines -MEL FINE Iron ore fines -Odissa fi Iron ore fines -Jabalpur Iron ore fines -oxide fin	ES ines high grade fines	or raw material	financial Year 0.55 0.033 0.042 0.014 0.0620	Financial year 0.52 0 0.067 0.040 0.041	Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton
per unit of product) Name of Raw Materia Iron ore fines -bacheli Iron ore fines -MEL FINE Iron ore fines -Odissa fi Iron ore fines -Jabalpur Iron ore fines -oxide fine Pellet feeds	ES ines high grade fines nes	or raw material	financial Year 0.55 0.033 0.042 0.014 0.0620 0.128	Financial year 0.52 0 0.067 0.040 0.041 0.217	Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton
per unit of product) Name of Raw Materia Iron ore fines -bacheli Iron ore fines -MEL FINE Iron ore fines -Odissa fi Iron ore fines -Jabalpur Iron ore fines -oxide fine Pellet feeds Bentonite	ES ines high grade fines nes	or raw material	financial Year 0.55 0.033 0.042 0.014 0.0620 0.128 0.0062	Financial year 0.52 0 0.067 0.040 0.041 0.217 0.0096 0.013	Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton
per unit of product) Name of Raw Materia Iron ore fines -bacheli Iron ore fines -MEL FINE Iron ore fines -Odissa fi Iron ore fines -Jabalpur Iron ore fines -oxide fin Pellet feeds Bentonite Iimestone fines+ Dolon	ES ines high grade fines nes	or raw material	financial Year 0.55 0.033 0.042 0.014 0.0620 0.128 0.0062	Financial year 0.52 0 0.067 0.040 0.041 0.217 0.0096	Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton
per unit of product) Name of Raw Materia Iron ore fines -bacheli Iron ore fines -MEL FINE Iron ore fines -Odissa fi Iron ore fines -Jabalpur Iron ore fines -oxide fine Pellet feeds Bentonite Iimestone fines+ Dolon Fuel Consumption Fuel Name	ES ines high grade fines nes Mite fines Consent quantity	or raw material	financial Year 0.55 0.033 0.042 0.014 0.0620 0.128 0.0062	Financial year 0.52 0 0.067 0.040 0.041 0.217 0.0096 0.013 Actual Quantity	Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton
per unit of product) Name of Raw Materia Iron ore fines -bacheli Iron ore fines -MEL FINE Iron ore fines -Odissa fi Iron ore fines -Jabalpur Iron ore fines -oxide fine Pellet feeds Bentonite Iimestone fines+ Dolon 4) Fuel Consumption Fuel Name Coke Oven Gas(KM3)	ES ines high grade fines nes Mitte fines Consent quantity 0	Of raw material	financial Year 0.55 0.033 0.042 0.014 0.0620 0.128 0.0062	Financial year 0.52 0 0.067 0.040 0.041 0.217 0.0096 0.013 Actual Quantity 56435000000000000000	Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton Ton/Ton

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

PH,Temp,Colour

Concentration

0

Concentration of Pollutants

discharged(Mg/Lit) Except

Percentage of variation

standards with reasons

Standard Reason

0

0

from prescribed

%variation

0

[B] Air (Stack)

[A] Water Pollutants

Detail

ZLD

Quantity of

discharged (kL/day)

Pollutants

Quantity

0

ronutants betain	Pollutants discharged		discharged(fro	m prescribed standards h reasons		
	Quantity		Concentrati	on		ariation		Reason
Dedusting 1 & 2	8.4		18.1		No	deviation	50	NA
Dedusting 3	10.8		20.4		No	deviation	50	NA
Main ESP	447.0		20.6		No	deviation	50	NA
Dedusting 7	14.0		22.4		No	deviation	50	NA
Dedusting 8	24.4		21.3		No	deviation	50	NA
Dedusting 9	6.3		16.5		No	deviation	50	NA
Discharge ESP	50.4		22.1		No	deviation	50	NA
Part-D								
HAZARDOUS WAS	STES							
Hazardous Waste			_	ious Financial year		tal During Current Financ	ial year	иом
5.1 Used or spent oil		1020	0 6600		6600		Ltr/A	
5.2 Wastes or residues containing oil 2		g oil 2100			20	2095		
2) From Pollution	Control Fac	ilities						
Hazardous Waste 0		Fotal Duri i)	ng Previous F	inancial year	Tota 0	l During Current Financia	l year	UOM Ton/Y
Part-E								
SOLID WASTES 1) From Process								
Non Hazardous W	/aste Type	Total Duri	ng Previous F	inancial year	Tot	al During Current Financi	al year	иом
NA		0			0			Ton/Y
2) From Pollution	Control Fac	ilities						
Non Hazardous W			_	evious Financial yea	r	Total During Current Fina	ancial year	UOM
DUST (ESP & Bag Fi	ilter)	35	573			37524		Ton/Y
3) Quantity Recyc	cled or Re-u	tilized wit	hin the unit					,
Waste Type				Total During Previ Financial year	ious	Total During Cur Financial year	rent	UOM
Other Hazardous W	aste aste			35573		37524		Ton/Y

Concentration of Pollutants

Percentage of variation

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Pollutants Detail Quantity of

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	6600	Ltr/A	NA
5.2 Wastes or residues containing oil	2095	Kg/Annum	NA

2) Solid Waste

Type of Solid Waste Generated Qty of Solid Waste UOM Concentration of Solid Waste

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)		Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
NA	0	0	0	0	119012	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution. [A] Investment made during the period of Environmental

Statement

Detail of measures for Environmental Protection **Environmental Protection** Capital Investment (Lacks) Measures NA NA

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures Capital Investment (Lacks) 0

NA NA

Part-I

Any other particulars for improving the quality of the environment.

Particulars

The company is aware of surrounding Environment. ISW Steel Limited has planted a large number of trees on the plant premises as per the guidelines given by MPCB. We are maintaining the full-fledged Nursery managed by a qualified Horticulture Officers to develop plants for our in-house requirement. Till date about 215925 Nos. big trees and 8565972 Nos. small trees including innumerable flower bushes, ornamental trees etc. have been planted.

Name & Designation

DR.ANAND RAI (Vice President) -HOD ENVIRONMENT DEPT.

MPCB-ENVIRONMENT_STATEMENT-0000069992

Submitted On:

16-09-2024