An ISO 9001:2015, ISO 14001:2015,
ISO 45001:2018 and
IATF 16949:2016 Certified Company

AARTI STEELS LIMITED

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Ref: ASL/EC-2009/Env./78832

Date: 27/05/2026

To

The Director,
IA Division (Industry),
Ministry of Environment, Forest and Climate Change,
Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi-110003

Sub: Submission of Half-Yearly Compliance Report of Environmental Clearance for Expansion Project of Aarti Steels Limited, Ghantikhal, Cuttack, Odisha.

Ref: Environmental Clearance letter no. J-11011/287/2008-IA II (I) dated 13.05.2009.

Respected Sir,

We are herewith submitting the Six-monthly compliance report on the status of the implementation of the conditions stipulated in Environmental Clearance awarded to us vide MoEF letter No: **J-11011/287/2008-IA II(I)** dated **13.05.2009** in respect of Integrated Steel Plant, Cuttack Odisha of Aarti Steels Limited for the Period from **October-2025 to March-2026**.

With reference to above, We're herewith uploading in Parivesh Portal and submitting the **Six-monthly Compliance report along with Annexure** in soft & hard copy.

Thanks & Regards,
For Aarti Steels Ltd,

(Factory Manager)

Encl: As above

Copy to:

The Integrated Regional Officer,
Government of India, Ministry of Environment & Forests, Eastern Regional Office, A/3, Chandrasekharpur, Bhubaneswar – 751023, Fax: 0674-2302432.

The Regional Director,
The Central Pollution Control Board, Zonal Office, The Southernd Conclave, Block 502, 5th and 6th Floors, 1582 Rajdanga Main Road, Kolkata, West Bengal 700107,

The Regional Officer,
Regional Office, State Pollution Control Board, 586, Suryavihar, Link Road, Cuttack-753012 (Odisha),

-for favour of kind information and doing the needful please

Half-Yearly Compliance Report

on

Environmental Clearance Conditions

(MoEF File no: J.11011/287/2008-IAII (I) dated 13.05.2009)

Period: October-2025 to March-2026

Submitted by:

AARTI STEELS LIMITED,
At-Ghantikhal, Cuttack, Odisha-754029

ISO 9001, 14001 & 45001 CERTIFIED COMPANY

HALF-YEARLY COMPLIANCE REPORT

on

ENVIRONMENTAL CLEARANCE CONDITIONS
(MoEF File no: J.11011/287/2008-IAII (I) dated 13.05.2009)

PERIOD: OCTOBER'25 TO MARCH'26

Submitted by:

AARTI STEELS LIMITED,
At-Ghantikhal, Cuttack, Odisha

Table of Contents (Annexure)

Table of Contents (Photograph)

Sl. No.	Specific conditions	Compliance Status (October'25 to March'26)
A (i)	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks. Sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm^3 . Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Electrostatic Precipitators (ESPs) and Bag Filters have been installed in all applicable units for effective control of particulate matter emissions and to maintain ambient air quality within the prescribed standards. All pollution control equipment is operated and maintained regularly to ensure optimum performance and continuous compliance. Fugitive emission point sources such as stock houses, material transfer points, junction points, and product hoppers have been provided with appropriate suction systems connected to Bag Filters. Dust suppression systems have been installed in raw material handling areas. All belt conveyors and transfer points are provided with enclosures and spray nozzles for dust suppression. Water spraying arrangements are in place at coal yards and truck tipplers. Regular water sprinkling is carried out using 3 × 12 KL water tankers during the non-monsoon period along internal roads, coal stack yards, railway siding areas, and other dust-prone locations. Additionally, manual water spraying using hoses is practiced wherever required. All major internal roads within the plant premises have been blacktopped to minimize dust generation. ***Annexure 6:*** *Photographs of Dust Suppression system* Adequate pneumatic dust handling systems have been operational at the hoppers of CFBC ESP, AFBC ESP, WHRB I ESP, WHRB II ESP and DRI Bag Filters. The collected dust/ash is stored in silos and disposed of to cement plants and brick manufacturing units in an environmentally safe manner. ***Figures 2:*** *Photographs of Dust Extraction system* To further improve ambient air quality, two additional Bag Filters of capacities 85,000 m³/hr and 33,200 m³/hr have been installed for capacity enhancement of existing Bag Filters of 2 × 500 TPD DRI kilns, as recommended by IIT Kharagpur, to control fugitive emissions. A Dust Extraction System (DES) connected to Bag Filters has also been installed in the SMS to control secondary emissions during charging operations. Both systems are functioning satisfactorily. For monitoring ambient air quality, four (04) Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed at strategic locations namely Bachelor Colony, Reservoir Area, Guest House, and FAP Area. These stations continuously monitor PM_{10}, $PM_{2.5}$, SO_2, NO_x, and CO, and transmit real-time data to CPCB and SPCB servers as per statutory requirements. Mannual Monitoring is also carried out through a NABL-accredited laboratory. ***Figure 4:*** *Photographs of AAQMS Stations* Online Continuous Stack Emission Monitoring Systems have been installed for all ESP and GCP stacks as per OSPCB guidelines. Real-time data for AAQ and stacks is transmitted through RT-DAS to CPCB and OSPCB servers via authorized

		agencies.
(ii)	Hot gases from DRI kiln shall pass through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in Waste Heat Recovery Boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and Stack. Electrostatic precipitator (ESP) shall be provided to DRI plant, Captive Power plant and Sinter plant to control air emissions within 100 mg/Nm^3. Bag filters shall be provided to submerged arc furnace. Dry fog system will be provided to coal washery. Dust extraction system with bag filters shall be provided to the Coke oven. Bag filters shall be provided to submerged arc furnace. Gas cleaning plant having dust catcher and bag filter shall be provided to Blast furnace (BF). Bag house shall be provided to BF-Dry gas cleaning system.	**Complied** In our 50 MW power plant (commissioned in March, 2010), Flue gas from CFBC boiler passes through economizer followed by air pre-heater and ESP (6 fields) before getting emitted through a RCC stack of height 101m. The ESP works effectively with efficiency 99.999% to control Particulate emissions within 50 mg/$Nm^{3.}$ Also, GCP (Bag Filter) for 2x9 MVA & 1x18 MVA FAP has been installed and in operation to control air emissions within 100 mg/$Nm^{3.}$ We are yet to install Blast Furnace, Sinter Plant, Coke Oven Plant as per Expansion program. Out of Expansion facility we have installed 50 MW CFBC Power plant and 1x18 MVA FAP.
(iii)	All the waste gases from the DRI plant, blast furnace, coke oven, and F-grade coal shall be utilized to generate power. Gaseous fuels from the blast furnace shall also be used in BF runners, stoves and sinter etc. No coke oven gases shall be discharged into the atmosphere but used in in the WHRB to generate power.	**Complied** We have a 50 MW CFBC Power Plant, 30 MW AFBC Power plant and 2x10 MW WHRB Power plant All waste gases generated from the existing DRI Plant are being effectively utilized in the Waste Heat Recovery Boiler (WHRB) for power generation, ensuring no discharge of untreated gases into the atmosphere. ***Figure 5:*** *Photographs of WHRB Boilers*
(iv)	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided .Dry fog dust suppression system and water sprinkling at coal washery, raw material handling areas and dust collectors at material transfer points, conveyor belts, coal crushers and screening areas and finish product handling etc shall be provided. Further, specific measures like water sprinkling around the coal stockpiles, loading/ unloading points and asphalting or concreting of the internal roads/ working zones shall be done to control fugitive emissions. Dust extraction system with bag filters along with dust suppression system shall be provided to proportioning unit, mixing unit, sinter crushing and screening unit to keep the dust in work zone environment within the permissible limit.	Adequate dust suppression and fugitive emission control measures have been implemented and are being effectively operated across the entire plant premises in compliance with the stipulated Environmental Clearance (EC) conditions. The details of compliance are as follows: **1. Dust Suppression in Raw Material Handling Areas** Dry fog–type dust suppression system has been installed and is fully operational at the coal crusher hoppers. • All conveyor belts are covered to prevent dust escape during material movement. • Spray nozzles have been provided at all conveyor transfer points to ensure effective suppression of fugitive dust emissions. • The jigging plant is operated with recirculated water. The wet process of material recover doesn't generate any particulate emission. **2. Control of Fugitive Emissions at Process and Handling Points** • All fugitive emission generation points such as stock houses, material transfer points, junction points, and product hoppers have been provided with appropriate suction systems connected to Bag Filters. • Dust handling systems have been installed at the hoppers

		of CFBC ESP, AFBC ESP, WHRB ESPs, and DRI Bag Filters, which are operating satisfactorily. • The collected dust/ash is stored in silos and disposed of to cement plants and abandoned quarry pits in an environmentally safe manner. **3. Internal Road Dust Control** • Most of the internal roads within the plant premises have been black-topped. • Regular water sprinkling is carried out using dedicated water tankers to control dust generated due to vehicular movement. • Fugitive emission monitoring is conducted at regular intervals, and the monitored values consistently remain within prescribed regulatory norms. *Figure 6: Photographs of Internal Roads & Water Sprinkling System* **4. Dust Control at Railway Siding Area** • To control dust during unloading and handling of raw materials at the railway siding, three (03) dedicated water tankers of 12 KL capacity each have been deployed exclusively for dust suppression activities. • High-pressure rain guns have been installed in the raw material handling area to ensure continuous and effective dust suppression during unloading operations. *Annexure 6: Photographs of dust suppression system* **5. Additional Dust Control Measures** • All material transportation through trucks and tippers is carried out in covered condition to prevent spillage and fugitive dust emissions. • Sprinklers have been installed at the Coal Yard and Iron Yard areas. • Sprinkler systems have been provided in the DRI Unit, Iron Ore Crushing Unit, and FAP Unit for effective dust suppression. • During the non-monsoon period, water spraying using 3 × 12 KL tankers is carried out along internal roads, coal stack yard, railway siding area, and other dust-prone locations. • Manual water spraying using hoses is also practiced wherever required. • Wheel washing system near Main gate in operation to avoid fugitive emission. • Solid waste generated is being handled and disposed of properly within the premises without causing any dust nuisance or environmental contamination. *Annexure 7: Wheel washing system* **6. Compliance Assurance** Aarti Steels Ltd remains committed to implementing necessary measures for effective control of fugitive emissions. All dust suppression systems, pollution control equipment,

		and monitoring mechanisms are operated and maintained regularly to ensure continuous compliance with Environmental Clearance conditions and applicable environmental standards.
(v)	Data on ambient air quality, stack emissions, and Fugitive emissions shall be uploaded on the Company's website and also regularly submitted on-line to the Ministry's Regional Office at Bhubaneswar, Orissa Pollution Control Board (OSPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO_2 and NO_x shall also be displayed prominently outside the premises at the appropriate place for the information of general public.	**Complied** Data on ambient air quality monitored for the parameters at 04 corners (AAQMS 1 - Bachelor Colony, AAQMS 2 - Reservoir, AAQMS 3 - Guest House, AAQMS 4 - FAP) PM2.5, RSPM, SO2, NOx, CO, Data on Stack air quality monitored for the parameters P.M., SO2 and NOx and data on fugitive emission monitored for the parameter SPM for running plants is being submitted to MOEFCC, OSPCB, CPCB and uploaded on the Company's website once in six months. A digital display board has been installed at the main gate of the plant to disseminate real-time environmental parameters to the public. The board continuously displays emission parameters on real time basis. ***Annexure 5:*** *Environment Monitoring Report* ***Figure 7:*** *Photographs of the Digital Display Board Installed at the Main Gate*
(vi)	Gaseous emission levels including secondary fugitive emissions from blast furnace and sinter plant 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. The emission standards issued by the Ministry in May, 2008 for the sponge plants shall be followed.	We are yet to install Sinter Plant, Blast Furnace, DRI & Coke Oven as per expansion program.
(vii)	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	**Complied** All necessary measures have been implemented to control fugitive dust emissions arising from transportation, railway siding operations, and raw material handling, in compliance with the stipulated Environmental Clearance (EC) conditions. **1. Covered Transportation of Raw Materials and Products** • Transportation of all raw materials and finished products—both for internal movement within the plant premises and external dispatch—is carried out exclusively through covered trucks and tippers. • This practice is strictly enforced to prevent dust dispersion during transit and material handling activities. • Regular checks are conducted to ensure compliance with covered transportation norms. **2. Dust Control at Railway Siding and Raw Material Handling Areas** To effectively control dust emissions during unloading and handling of raw materials at the railway siding and associated handling zones, the following measures have been implemented:

		• Dedicated water tankers of 3x12 KL capacity each have been deployed exclusively for regular and continuous water sprinkling in the railway siding area. • High-pressure rain guns have been installed in the raw material handling zone to provide uniform and effective dust suppression, particularly during peak unloading operations. • These dust suppression systems are operated as per a defined schedule and monitored regularly to ensure effective performance. **4. Fugitive Emission Monitoring and Compliance** • Fugitive emission monitoring is carried out at regular intervals at identified locations. • Monitoring results consistently confirm that fugitive emission levels remain within CPCB-prescribed norms. • Monitoring records are maintained and made available for inspection. **5. Compliance Assurance** The plant remains fully committed to strengthening fugitive dust control measures through: • Strict enforcement of covered truck transportation • Continuous water sprinkling and rain gun operation. • Regular fugitive emission monitoring and review • All systems are operated and maintained diligently to ensure environmentally safe handling of raw materials and sustained compliance with Environmental Clearance conditions. ***Annexure 6:*** *Dust Suppression system*
(viii)	All the standards prescribed for the coke oven plants shall be followed as per the latest guidelines. Proper and full utilization of coke oven gases in power plant using waste heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air.	We are yet to install Coke Oven Plant as per expansion program.
(ix)	As proposed, dry coke quenching method shall be adopted in the proposed non-recovery type of the coke oven.	We are yet to install Coke Oven Plant as per expansion program.
(x)	Total water requirement from River Mahanadi for the proposed expansion shall not exceed 25,512 m^3/day as per the permission accorded by the State Water Resource Department, Orissa vide letter no. WII-DM-Misc.-5/2003/13857 dated 26th December, 2003.Prior permission for the drawl of extra water, if any, shall be obtained from the concerned department. No ground water shall be used. BF-GCP and coal washery water shall be treated in thickener and used in the pig casting machine. Acidic and Alkaline effluent from DM water plant shall be neutralized and reused in the plant	**<u>Complied</u>** Total water requirement from River Mahanadi for the proposed expansion does not exceed 25,512 m^3/day as per the permission accorded by the State Water Resource Department, Orissa vide letter no. WII-DM-Misc.-5/2003/13857 dated 26th December, 2003. We are not using ground water. Coal Washery operations ceased in 2013 and the CHP is currently operational. So, no provision of waste water in CHP. We are yet to install Blast Furnace as per expansion programme. **<u>Complied</u>** Aarti Steels Ltd strictly adheres to Zero Liquid Discharge (ZLD) practices.

	through ash pond. Oil traps and skimming devices shall be provided for removal of oil and grease. All the waste water from process shall be treated and recycled and reused for ash slurry making, sprinkling, green belt development. No waste water shall be discharged outside the premises and 'Zero' effluent discharge shall be ensured. Domestic effluent shall be treated in Septic tank followed by soak pit and used for green belt development.	We have one dedicated Raw water reservoir, waste water sump and one rain water harvesting pit. - River water stored in reservoir water of Capacity 1.5 lakhs m3. After Pretreatment, the clarified water used for Process, Cooling & domestic purpose. We strictly monitor the water usage at every segment of operation with proper optimization. Most of operation follows closed cycle colling, it helps in lesser make up. Our Powerplant cooling towers are working higher CoC, which helps in lesser make of clarified water. - Process blow down water is collected to waste water sump of capacity 5500 m3 & same is treated and reused for quenching of slag at FAP & Fly ash conditioning. - We have rain water harvesting tank of capacity 20000 m3 and same water is pumped back to Reservoir for reuse. - Wastewater and blowdown water generated from the plant are collected in the wastewater sump then neutralized, monitor the parameter after that reutilized for: Ash quenching, Slag quenching and slag granulation, Fly ash conditioning, Raw material stockpile sprinkling, Road dust suppression. ***Annexure 8:*** *Water Balance of effluent* **Complied** Domestic effluent of Factory premises and colony were treated in STP(s). We have already installed STPs at colonies (Capacity 200 KLD each), rolling mill (10 KLD), Canteen (10 KLD). The domestic waste water after treatment in STP are being used for green belt development. ***Annexure 9:*** *Sewage Treatment plant (STP) details* ***Annexure 21:*** *Surface Runoff Treatment System (SRTS) details*
(xi)	The water consumption shall not exceed 16 m^3/Ton of Steel as per prescribed standard.	**Complied** The total water consumption for the plant is far below the prescribed limit of 16 m^3/ton of steel.
(xii)	Ground water monitoring around the solid waste disposal site / secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and OPCB.	**Complied** We have carried out groundwater quality monitoring in accordance with the parameters prescribed in IS 10500:2012 and as required under the Environmental Clearance conditions. Ground water quality monitoring has been conducted on periodic basis by NABL Authorized third party laboratory. ***Annexure 10:*** *Groundwater monitoring report from NABL accredited laboratory*
(xiii)	All the char from DRI plant, coal washery rejects and middlings shall be utilized in the CFBC boiler of power plant. No char shall be disposed off anywhere else. CFBC power plant shall be installed before installation of Sponge Iron Plant so that utilization of char in the CFBC boiler is ensured. All the blast furnace (BF) slag shall be	**Complied** Char generated from DRI plant is being reutilized in Boiler of Captive power plant for power generation. *Figure 9: Solid Waste Yard* All the other solid wastes including broken refractory mass are being properly disposed of in environment friendly manner.

	granulated and provided to cement manufacturers for further utilization. SMS slag shall also be properly utilized in environment friendly manner. DRI fines, coke breeze, sinter dust, GCP dust, SMS dust, scale, iron ore fines shall be used in sinter plant. All the other solid wastes including broken refractory mass shall be properly disposed off in environment friendly manner. Resin used in demineralization plant shall be disposed off properly in impervious lined pit as per CPCB guidelines. Oily waste shall be provided to authorized recyclers / re-processors.	***Annexure 11:*** *Solid Waste Management Report* Resin used in demineralization plant is being disposed off properly in impervious lined pit with cover as per CPCB guidelines. As per SOP released by CPCB, utilization of spent ion exchange resin for energy recovery in our DRI kiln and utilizing resin accordingly. Oily waste is being sold to OSPCB authorized recyclers / re-processors only. We are yet to install Sinter Plant, Blast Furnace, DRI & Coke Oven as per expansion program.
(xiv)	Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture Silico Manganese (Si-Mn).	Currently, Ferro Chrome (Fe-Cr) production is being carried out in the existing Ferro Alloy Plant (FAP). No Ferro Manganese (Fe-Mn) production is undertaken at present; hence, the condition related to utilization of Fe-Mn slag for Si-Mn manufacturing is not applicable at this stage. The Ferro Chrome slag generated from the operational units is processed through the metal recovery (Jigging) plant. After recovery of metallic content, and after confirming the quality the non-hazardous processed slag is being safely utilized in road construction and landfilling**,** in compliance with CPCB/MoEF&CC guidelines.
(xv)	The slag from the ferro alloy plant after metal recovery shall be used for road making only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines. Metal recovery plant shall be installed to recover metal.	A **Metal Recovery Plant (MRP)** has been installed and is in regular operation within the plant premises for recovery of metallic content from slag generated from the Ferro Alloy Plant (FAP). ***Annexure 13:*** *Metal Recover Plant* **1. Slag Processing and Utilization** • After recovery of metallic content, the processed slag is re utilized for road construction, land development, and other permissible applications, strictly in accordance with applicable environmental guidelines and CPCB norms. • Utilization of slag for road making is undertaken only after confirming its environmental safety through TCLP testing. • Complete records of slag generation, metal recovery, and utilization are maintained. **2. TCLP Analysis of Processed Slag** To ensure environmentally safe utilization, the Toxicity Characteristic Leaching Procedure (TCLP) analysis has been carried out for all prescribed heavy metal parameters as per regulatory requirements. **Findings of TCLP Analysis:** • The processed slag does not exhibit any hazardous characteristics. • Leachate concentrations of all tested heavy metals are well within the permissible limits. • The slag is confirmed to be non-hazardous and suitable for use in road construction, land development, and other

		approved applications. **3. Requirement of Secured Landfill** Based on: • Non-hazardous classification of slag as per TCLP results, and • 100% utilization of processed slag after metal recovery, • No secured landfill facility is required, as there is no hazardous waste generation from slag after processing.
(xvi)	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 shall be submitted to the Ministry's Regional Office at Bhubaneswar, OPCB and CPCB.	**Complied** The Solid Waste Management details for the above-installed units and the Hazardous Waste Management details are enclosed. Proper handling, storage, utilization, and disposal of all solid and hazardous wastes are being ensured as per the applicable statutory requirements. ***Annexure 11:*** *Solid Waste Management details* ***Annexure 12:*** *Hazardous Waste Management detail*
(xvii)	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	**Complied** We have taken the following measures to reduce solid waste generation, its proper utilization and disposal: **1. Reduction of Solid Waste at Source** ● Char utilization: Char generated from the DRI unit is fully utilized in the Captive Power Plant as a supplementary fuel. ● Ferro Alloy Plant (FAP) Slag: After metal recovery in the Jigging Plant, the processed slag is being used for road construction and land-filling. FAP dust (DE-dust) is being fully utilized for briquette manufacturing. ● Ash from Captive Power Plant: The ash generated from the Captive Power Plant has been systematically utilized in the Brick Manufacturing Units, Cement Industries, and External Road Construction Activities. **2. Storage & Management of Hazardous Waste** ● Used Oil Management: Used oil is being disposed of only to authorized recyclers/re-refiners as per Hazardous Waste Rules. A dedicated secured storage shed with a concrete platform has been constructed for safe storage of used oil. ● Bio-medical Waste Management: A properly designed bio-medical waste pit has been constructed within the premises for disposal of waste generated from the First Aid Centre. **3. Organic Waste Management** ● Food Waste Utilization: 02 number of Organic Waste Converters (OWC) have been installed at the canteen and colony area for converting food waste into compost. The generated compost is being utilized for greenbelt development. ***Annexure 14:*** *Organic Waste Convertor details*
(xviii)	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 as amendment in	**Complied** Ash from our captive power plant are used for fly ash brick /

	2003. Ash from captive power plant shall be provided to fly ash brick / cement manufacturers.	cement manufacturers etc. ***Annexure 15:*** *Ash Utilization detail*
(xix)	As proposed, green belt shall be developed in 94 ha (33 percent), out of total 283.4 ha in and around the plant as per the CPCB guidelines in consultation with DFO.	**Complied** We have developed a greenbelt of **111.5 hectares** within our premises, comprising approximately **275,250 trees**, achieving **39.34%** coverage. The greenbelt has been raised using indigenous and pollution-tolerant species such as Azadirachta indica, Cassia siamea, Delonix regia, Polyalthia longifolia, Terminalia arjuna, Ficus benghalensis, and various native varieties of the region. ***Annexure 16****: Plantation Details*
(xx)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel sector shall be implemented.	**Complied** The CREP recommendation compliance already implemented.
(xxi)	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.	**Complied** Labor accommodation facilities have been provided within the project premises with all required amenities. These include: ● Safe drinking water supply, ● Sanitized mobile toilets and handwashing facilities ● First-aid facilities ● Well functional 4 Nos STPs ● first-aid facilities is operated with full time physician
	General Conditions	**Compliance Status (October'25 to March'26)**
B (i)	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.	Consent to Operate has been obtained from the Odisha State Pollution Control Board (OSPCB) vide letter dated 18.03.2023, valid up to 31.03.2028. All stipulations, directions, and conditions prescribed by OSPCB are being strictly complied with. Necessary control measures are implemented promptly as per the Board's guidelines, and compliance records are maintained and submitted regularly to OSPCB. ***Annexure 1:*** *Consent to Operate (CTO) detail*
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	**Accepted** We confirm that no further expansion, modification, or capacity enhancement has been undertaken in the plant without obtaining the prior Environmental Clearance (EC) from the Ministry of Environment, Forest and Climate Change (MoEFCC).
(iii)	The gaseous emissions from various process units shall conform to the load / mass based standards modified by the Ministry on 19th May, 1993 and standards prescribed from time to time by the Ministry. Orissa Pollution Control Board (OPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond	**Complied** The gaseous emissions (Particulate Matter concentration) from the stacks attached to the CFBC Boiler and Ferro Alloy Plant (FAP) are being continuously monitored through the Online Continuous Emission Monitoring System (OCEMS). As per the consent conditions stipulated by the Odisha State Pollution Control Board (OSPCB), we are maintaining the particulate matter (PM) emissions below 100 mg/Nm³, well within the prescribed limits. Further, we would like to submit that the load/mass-based

	the prescribed standards.	emission standards notified by the Ministry of Environment & Forests (MoEF) on 19th May 1993, is not applicable in our case at present, since the Coke Oven Plant which is a key component for determination of load-based standards, is yet to be installed under the expansion programme. We assure that all emissions are being regularly monitored, recorded, and reported as per the guidelines of MoEF&CC and OSPCB. We have installed ESPs and Bag Filters at every point sources to ensure emission level below the OSPCB prescribed standards.
(iv)	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO_2 and NO_x are anticipated in consultation with the OPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB once in six months.	**Complied** Four continuous online ambient air quality monitoring stations have already been established since March, 2015 in downward direction as well as where maximum ground level concentration of PM2.5, RSPM, SO2, NOx and CO are anticipated in consultation with the Odisha State Pollution Control Board. (AAQMS 1 - Bachelor Colony, AAQMS 2 - Reservoir, AAQMS 3 - Guest House, AAQMS 4 - FAP) ***figure 4:*** *AAQMS Station* Data on ambient air quality monitored for the parameters PM2.5, RSPM, SO2, NOx, CO in the above stations, Data on Stack air quality monitored for the parameters P.M., SO2, NOx, and data on fugitive emission monitored for the parameter SPM for running plants is being submitted once in six months. ***Annexure 5****: Monitoring reports.*
(v)	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December,1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	**Complied** The industrial wastewater generated from the plant is being completely collected, treated, and recycled within the premises**.** No wastewater is discharged outside the plant boundary. The treated water is reutilized for dust suppression, slag quenching, greenbelt development, and other in-house reuse applications. Since zero liquid discharge is ensured and no disposal to surface water bodies occurs, the effluent discharge standards prescribed under GSR 422(E) dated 19.05.1993 and 31.12.1993 are not applicable in our case. However, the in-house wastewater treatment systems are being operated and maintained to achieve the required quality parameters prior to reuse.
(vi)	The overall noise levels 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 levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	**Complied** Noise levels in and around the plant premises are being maintained well within the prescribed standards by adopting appropriate noise control measures such as acoustic hoods, silencers, and enclosures on applicable noise-generating equipment. Ambient and workplace noise levels are being monitored regularly and the results confirm that: ● **Occupational noise levels** at source are within the limit

		of **85 dB(A)** as per the Factories Act and relevant guidelines. ● **Ambient noise levels** within and around the plant boundary comply with the norms prescribed under the EPA Rules, 1989, i.e., **- 75 dB(A)** during day time **- 70 dB(A)** during night time ***Annexure 5****: Noise Monitoring reports.*
(vii)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	**Complied** Occupational Health Surveillance of the workers is being carried out regularly in accordance with the provisions of the Factories Act. Periodic medical examinations, health check-ups, and workplace exposure assessments are conducted once every year. Records of all health surveillance activities are systematically maintained and are available for inspection.
(viii)	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	**Complied** A surface run-off rainwater harvesting structure of 83 m × 73 m × 5 m has been constructed in consultation with IIT Kharagpur. This pond captures and stores significant volumes of rainwater during monsoon. ● Water Reuse & Recycling System: Pumping system, pipelines, and associated infrastructure have been installed to transfer the harvested water to the raw water reservoir. This system has been operational from **July 2012** and is functioning. Thus, the rainwater harvesting system is fully operational and meets the stipulated requirements of the Environmental Clearance (EC). ***Figure 11****:Rain Water Harvesting & Reservoir*
(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, educational programmes, drinking water supply and health care etc. Suggestions made during the public hearing shall be implemented.	**Complied** All the environmental protection measures and safeguards recommended in the EIA/EMP Report are being duly complied with for the facilities. The Social Infrastructure and Peripheral Development works undertaken by the company have been documented. Further, under health care initiatives, regular health check-ups are being conducted for the local residents of Dhurusia, Mahakalabasta, Ghantikhal, and Kakhadi villages by the company's Doctor and Pharmacists through a mobile health van. ***Annexure 17:*** *Consolidated Peripheral expenditure in different heads.*
(x)	As proposed, Rs 45.00 Crores and Rs 5.00 Crores shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so	**Complied** The company has allocated **Rs. 45.00 Crores** towards the capital cost and Rs. 5.00 Crores per annum towards recurring cost for implementation of the Environmental Management Plan (EMP), as committed. We hereby confirm that the earmarked funds are being strictly utilized for environmental protection and management

	provided shall not be diverted for any other purpose.	measures only, and no diversion of funds has been made or shall be made for any other purpose. ***Annexure 18:*** *Expenditure incurred on environmental protection measures*
(xi)	The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	**Complied** The stipulated environmental conditions are being regularly monitored by the Regional Office of the Ministry at Bhubaneswar, as well as by the State Pollution Control Board (SPCB) and the Central Pollution Control Board (CPCB). A comprehensive trend analysis and statistical interpretation of key environmental parameters, including Ambient Air Quality (AAQ), Stack Emissions, and Fugitive Dust Monitoring analysis includes parameter-wise trends, mean values, compliance comparison against prescribed standards, and graphical representations for ease of review. ***Annexure 5:*** *Environment Monitoring Report*
(xii)	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 OPCB and may also be seen at Website of the Ministry of Environment and Forests at http:/envfor.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 locality concerned and a copy of the same shall be forwarded to the Regional Office at Bhubaneswar.	**Complied** The newspaper advertisement related to the Public Hearing is has already been submitted. ***Annexure 19:*** *Newspaper advertisement*
(xiii)	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 commencing the land development work.	**Complied** The financial closure for the project was achieved in March 2009, followed by financial approval in May 2009. It was Based on the secured financial position and project planning.
(xiv)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	**Accepted** We acknowledged all the condition. All stipulated Environmental Clearance conditions are being implemented in a time-bound manner. The company remains fully committed to ensuring compliance at every stage and will promptly incorporate any additional conditions imposed by the Ministry.
(xv)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	**Accepted** We acknowledge the condition and respectfully submit that we will comply with any additional stipulations prescribed by the Ministry, as and when required. The Company is committed to implementing all such conditions in a time-bound manner to ensure full adherence to environmental norms and regulatory requirements.
(xvi)	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred with in a period	**Accepted** We acknowledge the provision regarding the appeal process. Any appeal against the Environmental Clearance, if required,

	of 30 days as prescribed under section 11 of the National Environment Appellate Act, 1997.	shall be preferred before the National Environment Appellate Authority within the stipulated period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.
(xvii)	The above conditions will be enforced, inter-alia 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 Waste(Management and Handling) Rules,2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	**Accepted** We affirm that all the above conditions will be complied with as per the provisions of the following Acts and Rules, along with their subsequent amendments: ● The Water (Prevention and Control of Pollution) Act, 1974 ● The Air (Prevention and Control of Pollution) Act, 1981 ● The Environment (Protection) Act, 1986 ● Hazardous Waste (Management & Handling) Rules, 2003 ● Public Liability Insurance (PLI) Act, 1991 We further assure that all statutory requirements under these Acts will be strictly adhered to. ***Annexure 1:*** *CTO details* ***Annexure 2:*** *HWA details* ***Annexure 3:*** *BMW Authorization details* ***Annexure 4:*** *SHE Policy*

(Factory Manager)
Aarti Steels Limited

Figure: 01 (Cover truck & Water Tanker)

Covered Truck

Water Tanker

Figure: 02 (Stack, ESP & BagFilter)

AFBC (Stack & ESP)

CFBC (Stack & ESP)

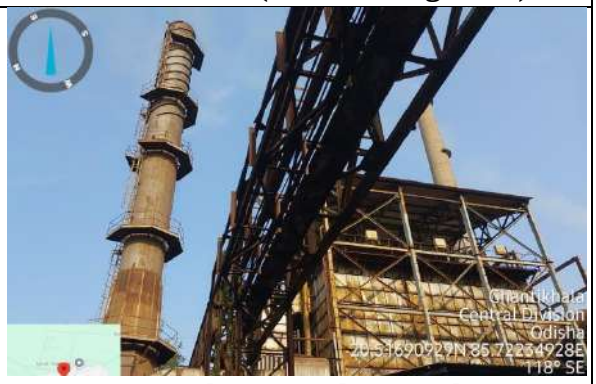
DRI WHRB-I (Stack & ESP)

DRI WHRB-II (Stack & ESP)

FAP 1x18MVA (Stack & Baghouse)

FAP 2x9MVA (Stack & Baghouse)

SMS Primary (Stack & Baghouse)



SMS Secondary (Stack & Baghouse)

SMS Lime (Stack & Baghouse)

Rolling Mill Stack

Briquetting dryer (Stack & Baghouse)

Briquetting transfer points (Stack & Baghouse)

DRI T.H .(Stack & Baghouse)

DRI P.H. (Stack & Baghouse)

Wagon Tippler (Stack & Baghouse)

Figure: 03 (DRI Bag Filters)

DRI T.H .(Stack & Baghouse

DRI P.H. (Stack & Baghouse)

Figure: 04 (AAQMS Stations)

AAQMS-01

AAQMS-02

AAQMS-03

AAQMS-04

Figure: 05 (Waste Heat Recovery Boiler)

DRI WHRB 1 Boiler

DRI WHRB 1 Boiler

Figure: 06 (Water Sprinkling System & Internal Road)

Water Sprinkling System & High Pressure Rain Guns

Internal Roads

Way to SMS

Rolling Mill

Way to FAP

Way to Admin Building

Way to CHP

Way to Guest House

Way to Power Plant

Guest House to Main Gate

Way to DRI

Way to Main-Gate

Figure: 07 (Digital Display Board Installed at the main Gate)

CEMS Real-Time Monitoring Display	
	
	
	
	
AAQMS Real-Time Monitoring Display	
	
	
CEMS & AAQMS Real-Time Monitoring Display	

Figure: 08 (STPs)

GET 200KLD STP

Canteen 10KLD STP

Rolling Mill 10KLD STP

Gate-02 200KLD STP

Figure: 09 (Solid Waste Yard)

FAP Slag Yard

Jigging Slag Yard

SMS Slag Yard

Char Yard

Figure: 10 (Environment Awareness Program)

Figure: 11 **(Water Reservoir)**

Figure: 11 **(Rain Water Harvesting Pond)**

Figure: 12 (Display Board- Environment)

Figure: 13 (SRTSs)

DRI: SRTS 200KLD | **FAP: SRTS 200KLD**

Environmental Awareness & Events

Environmental Awards & Recognition

(for Environment Performance, Carbon footprint emission & Flyash Utilization)

Annexure 1 - Consent to Operate (valid up to 31.03.2028)

SPEED POST

STATE POLLUTION CONTROL BOARD, ODISHA

(DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVT. OF ODISHA)
A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012
Phone-2561909/ EPABX : 2561909/2562847
E-mail: paribesh1@ospcboard.org / Website: www.ospcboard.org

CONSENT ORDER

No. 4032 / IND-I-CON-4904 Dt. 18.03.2023

Sub: Consent for Existing / New operation of the plant under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981.

Ref : Online Application **ID No. 4572712, dtd. 24.12.2022**

This consent to operate order issued under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed there under to

Name of the Industry: **AARTI STEELS LIMITED**
At- Ghantikhal,Po-Mahakalbasta, Via- Athagarh, Dist-Cuttack-754029

Name of the Occupier & Designation; **Sri Rajeev Mittal, Director**

Address **At- Ghantikhal,Po-Mahakalbasta, Via- Athagarh, Dist-Cuttack-754029**

This consent order is valid for the period from **01.04.2023 to 31.03.2028**

This consent order is valid for the product quantity, specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated therein.

A. Details of Products Manufactured

Sl. No.	Product	Quantity
01.	Sponge Iron - DRI Kiln –I & II	2×500 TPD
02.	WHRB Based Power Plant (DRI Kiln-I & II)	2×10 MW
03.	CFBC Based Power Plant	1×50 MW
04.	AFBC Based Power Plant	1x30 MW
05.	Coal Washery	1 MTPA
06.	Ferro Alloys Plant	2×9 MVA
07.	Ferro Alloys Plant (25,000 TPA)	1x18 MVA
08.	Chrome Briquette (1x25 TPH Briquette Plant)	25 Tons Per Hour
09.	Steel Melting Shop (SMS)	
	a) Electric Arc Furnace (EAF)	1×35 Ton
	b) Vacuum De-Gasification (VD)	1×35 Ton
	c) Ladle Refinery Furnace (LRF) & Billet Caster	2×26 Ton
10.	Rolling Mill (Special Steel Bars)	2,00,000 TPA

B. Discharge permitted through the following outlet subject to the standard

Outlet No.	Description of outlet	Point of discharge	Quantity of discharge	Prescribed standard			
1.	Domestic Effluent from canteen, GET Hostel, bachelors colony and plant area near Rolling Mill	After treatment in STPs shall be reused in green belt.	No discharge	pH-6.5 – 9.0 BOD- <30mg/l, TSS- <100 mg/l Fecal Coliform (FC) - MPN/100ml<1000			
2	Cooling water from DRI and SMS and FAP	Shall be completely recycled in a close circuit	No discharge	--	--	--	--
3.	Cooling water from Rolling Mill	Indirect cooling water to be completely recycled through cooling tower and direct cooling water shall be treated in ETP and recycled.	No discharge	--	--	--	--

C. Emission permitted through the following stack subject to the prescribed standard

Chimney / Stack No.	Description of Stack	Stack height (m)	Quantity of emission (Nm^3/hr)	Prescribed Standard	
1.	Stack attached to ESP of			PM (mg/Nm^3)	CO (Vol./Vol.)
a)	DRI Kiln –I with WHRB	60	1,80,000	100	1%
b)	DRI Kiln –II with WHRB	60	2,20,000	100	1%
2.	Common Bag filter attached to DRI Kiln – I & II				
a)	Product house	35	1,35,000	100	--
b)	Stock house	30	33,200	100	--
c)	I-Bin, Product House, Transfer house, Cooler discharge	35	85,000	100	--
d)	Coal injection point	20	9,000	100	--

				PM	SO_2	NO_x	Hg
3.	Stack attached to CFBC Boiler (50 MW)	100	4,00,000	50	600	300	0.03
4.	Stack attached to AFBC Boiler (30 MW)	85	1,96,000	50	600	300	0.03
5.	Stack Attached to GCP of Ferro Alloys plant (2x9 MVA)	40	3,20,000	100			
6.	Stack Attached to GCP of Ferro Alloys plant (18 MVA)	40	3,80,000	100			
7.	Bag filter attached to SMS (EAF/LRF)	35	2,20,000	100			
8.	Bag filter attached to SMS for secondary emission during tapping	30	3,80,000	100			
9.	Bag filter attached to lime handling plant of SMS	30	90,400	100			
10.	Common stack attached to bag filter connected in dryer of Chrome Ore briquetting Plant 25 TPH	30	14,000 Am^3/hr	100			
11	Common stack attached to bag filer connected to transfer points and Briquetting Press Building of 25 TPH & 12 TPH		46,000 Am^3/hr				
12.	Common stack attached to dryer of 12 TPH Chrome briquetting Plant		10,200 Am^3/hr				
13.	Stack Attached to 40 TPH top and bottom oil fired furnace	65	14,400	100			

D. Disposal of solid waste permitted in the following manner

Sl. No.	Type of Solid waste	Quantity generated	Quantity to be reused on site	Quantity to be reused off site	Quantity disposed off	Description of disposal site
1.	Dolochar	1,29,216 TPA	1,29,216 TPA	--	--	To be used as fuel in Power Plant
2	Dust from APC devices of DRI	14,130 TPA	14,130 TPA	--	--	To be reused in DRI after burning chamber for energy recovery
3.	Wet scrapper sludge	6905 TPA	6905 TPA	--	--	Used as fuel mix in Power Plant
4	Slag / Sludge from Ferro Chrome Plant (Ferro Chrome & Ferro Alloys Slag)	49,500 TPA	--	--	49,500 TPA	After recovery of metal used for road making, land filling and sludge in dumping area

4	Dust from APC Devices of FAP	601 TPA	--	--	601 TPA	Shall be used in briquetting plant
6.	Power Plant (Fly ash and Bottom ash)	2,61,218 TPA	--	--	2,61,218 TPA	Shall disposed as per the provisions of revised Fly Ash Notification, 31st Dec, 2021. The fly ash shall be used in cement making and fly ash brick manufacturing. In exigency ash will be stored temporarily in ash pond.
7.	Steel Melting Shop (SMS) slag	30,525.29 TPA	--	--	30,525.29 TPA	Disposed off / process / reused / road making
8.	Mill Scale	2279.53 TPA	--	--	2279.53 TPA	Sold to outside party

E. GENERAL CONDITIONS FOR ALL UNITS

1. The consent is given by the Board in consideration of the particulars given in the application. Any change or alternation or deviation made in actual practice from the particulars furnished in the application will also be the ground liable for review/variation/revocation of the consent order under section 27 of the Act of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 and to make such variations as deemed fit for the purpose of the Acts.
2. The industry would immediately submit revised application for consent to operate to this Board in the event of any change in the quantity and quality of raw material / and products / manufacturing process or quantity /quality of the effluent rate of emission / air pollution control equipment / system etc.
3. The applicant shall not change or alter either the quality or quantity or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
4. The application shall comply with and carry out the directives/orders issued by the Board in this consent order and at all subsequent times without any negligence on his part. . In case of non-compliance of any order/directives issued at any time and/or violation of the terms and conditions of this consent order, the applicant shall be liable for legal action as per the provisions of the Law/Act.
5. The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent order.
6. The issuance of this consent does not convey any property right in either real or personal property or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State laws or regulation.
7. This consent does not authorize or approve the construction of any physical structure or facilities or the undertaking of any work in any natural water course.
8. The applicant shall display this consent granted to him in a prominent place for perusal of the public and inspecting officers of this Board.
9. An inspection book shall be opened and made available to Board's Officers during their visit to the factory.
10. The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or of effluent treatment system / air pollution control system / stack monitoring system any other particulars as may be pertinent to preventing and controlling pollution of Water / Air.
11. Meters must be affixed at the entrance of the water supply connection so that such meters are easily accessible for inspection and maintenance and for other purposes of the Act provided that the place where it is affixed shall in no case be at a point before which water has been taped by the consumer for utilization for any purposes whatsoever.
12. Separate meters with necessary pipe-line for assessing the quantity of water used for each of the purposes mentioned below:
    a) Industrial cooling, spraying in mine pits or boiler feed,
    b) Domestic purpose
    c) Process
13. The applicant shall display suitable caution board at the lace where the effluent is entering into any water-body or any other place to be indicated by the Board, indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/bathing.

14. Storm water shall not be allowed to mix with the trade and/or domestic effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.
15. The applicant shall maintain good house-keeping both within the factory and the premises. All pipes, valves, sewers and drains shall be leak-proof. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
16. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems install or used by him to achieve with the term(s) and conditions of the consent.
17. Care should be taken to keep the anaerobic lagoons, if any, biologically active and not utilized as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed with sides and bottom made impervious.
18. The utilization of treated effluent on factory's own land, if any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or by overflow.
19. The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.
20. If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any problem or becomes a matter of dispute, the industry must adopt alternate satisfactory treatment and disposal measures.
21. The sludge generated from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank of treatment plant.
22. The effluent treatment units and disposal measures shall become operative at the time of commencement of production.
23. The applicant shall provide port holes for sampling the emissions and access platform for carrying out stack sampling and provide electrical outlet points and other arrangements for chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provision of the Act or Rules made therein.
24. The applicant shall provide all facilities and render required assistance to the Board staff for collection of samples / stack monitoring / inspection.
25. The applicant shall not change or alter either the quality or quantity or rate of emission or install, replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and/or quantity of emissions, without the previous written permission of the Board.
26. No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of the Board.
27. The liquid effluent arising out of the operation of the air pollution control equipment shall be treated in the manner to the meet the prescribed standards by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 (as amended).
28. The stack and ambient monitoring system installed by the applicant shall be opened for inspection to this Board at any time.
29. There shall not be any fugitive or episodal discharge from the premises.
30. In case of such episodal discharge/emissions the industry shall take immediate action to bring down the emission within the limits prescribed by the Board in conditions/stop the operation of the plant. Report of such accidental discharge /emission shall be brought to the notice of the Board within 24 hours of occurrence.
31. The applicant shall keep the premises of the industrial plant and air pollution control equipments clean and make all hoods, pipes, valves, stacks/chimneys leak proof. The air pollution control equipments, location, inspection chambers, sampling port holes shall be made easily accessible at all times.
32. Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge/emission of air pollutants and / or result in violation of the standards mentioned above shall be reported to the Headquarters and Regional Office of the Board by fax / speed post within 24 hours of its occurence.
33. The industry has to ensure that minimum three varieties of indigenous species of trees are planted at the density of not less than 1000 trees per acre. The trees may be planted along boundaries of the industries or industrial premises. This plantation is stipulated over and above the bulk plantation of trees in that area.
34. The solid waste such as sweeping, wastage packages, empty containers residues, sludge including that from air pollution control equipments collected within the premises of the industrial plants shall be disposed off scientifically to the satisfaction of the Board, so as no to cause fugitive emission, dust problems through leaching etc., of any kind.
35. All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by :
    i) Land fill in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off.
    ii) Controlled incineration, wherever possible in case of combustible organic material.
    iii) Composting, in case of bio-degradable material.
36. Any toxic material shall be detoxicated if possible, otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxication or sealing and burying shall be carried out in the presence of Board's authorized persons only. Letter of authorization shall be obtained for handling and disposal of hazardous wastes.
37. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard, vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.

38. The applicant, his/heirs/legal representatives or assignees shall have no claim whatsoever to the condition or renewal of this consent after the expiry period of this consent.
39. The Board reserves the right to review, impose additional conditions or condition, revoke change or alter the terms and conditions of this consent.
40 Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves to it the right and power under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Act by the Board.
41. The conditions imposed as above shall continue to be in force until revoked under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 A of Air (Prevention & Control of Pollution) Act, 1981.
42. The industry shall comply to all the conditions stipulated under Charter on Corporate Responsibility for Environmental Protection (CREP) guidelines in a time bound manner as envisaged there in. (if applicable)
43. The industry shall comply to the conditions stipulated in CTE order issued by ODISHA State Pollution Control Board.
44. The industry shall abide by E(P) Act, 1986 and Rules framed there-under
45. In case the consent fee is revised upward or the fees paid is found to be inadequate for any reason during this period, the industry shall pay the differential fees to the Board (for the remaining years) to keep the consent order in force. If they fail to pay the adequate amount within the period stipulated by the Board the consent order will be revoked without prior notice.
46. The Board reserves the right to revoke/refuse consent to operate at any time during period for which consent is granted in case any violation is observed and to modify/ stipulate additional conditions as deemed appropriate

GENERAL CONDITIONS FOR UNITS WITH INVESTMENT OF MORE THAN Rs 50 CRORES, AND 17 CATEGORIES OF HIGHLY POLLUTING INDUSTRIES (RED A)

1. The applicant shall analyze the effluent / emissions and Ambient Air Quality every month through approved laboratory for the parameters indicated in TABLE- 'B', 'C' & Part -'B' as mentioned in this order and shall furnish the report thereof to the Board on monthly basis.
2. The following information shall be forwarded to the Member Secretary on or before 10th of every month.
   a) Performance / progress of the treatment plant.
   b) Monthly statement of daily discharge of domestic and/or trade effluent.
3. Non-compliance with effluent limitations

a) If for any reason the applicant does not comply with or is unable to comply with any effluent limitations specified in this consent, the applicant shall immediately notify the consent issuing authority by telephone and provide the consent issuing authority with the following information in writing within 5 days of such notification.
   i) Causes of non-compliance
   ii) A description of the non-compliance discharge including its impact on the receiving waters.
   iii) Anticipated time of continuance of non-compliance if expected to continue or if such condition has been corrected the duration or period of non-compliance.
   iv) Steps taken by the applicant to reduce and eliminate the non-complying discharge and
   v) Steps to be taken by the applicant too prevent the condition of non-compliance.

b) The applicant shall take all reasonable steps to minimize any adverse impact to natural waters resulting from non-compliance with any effluent limitation specified in this consent including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

c) Nothing in this consent shall be construed to relieve the applicant from civil or criminal penalties for non-compliance whether or not such non-compliance is due to factors beyond his control, such as break-down, electric failure, accident or natural disaster.

4. Proper housekeeping shall be maintained inside the factory premises including process areas by a dedicated team.
5. The industry must constitute a team of responsible and technically qualified personnel who will ensure continuous operation of all pollution control devices round the clock (including night hours) and should be in a position to explain the status of operation of the pollution control measures to the inspecting officers of the Board at any point of time. The name of these persons with their contact telephone numbers shall be intimated to the concerned Regional Officer and Head Office of the Board and in case of any change in the team it shall be intimated to the Board immediately.
6. The industry shall engage dedicated qualified manpower to ensure continuous and effective operation of online stack / Ambient Air Quality / Effluent monitoring stations for maintenance of database, real time data transfer to SPCB server, data analysis and co-ordination with concerned personnel of process units for taking corrective measures in case of non-compliances and to respond to the instructions of SPCB in this matter.

7. All employees of the industry including officers, staff, workers, contract workers involved in operation/maintenance/ supervision of process area, pollution control areas, raw material and waste handling areas shall undergo short term training at least twice in a year in the field of pollution control and environment protection to create awareness and develop green skill. The report on the activities along with details and photographs shall be submitted to the Board on annual basis by end of June for previous financial year.
8. ISO auditing reports of the industry in the field of environment shall be submitted to the Board every year on annual basis.
9. The environmental cell shall be established and upgraded effectively to guide, monitor the pollution control and environmental protection activities inside the industries on day to day basis to ensure that the conditions stipulated in the consent to establish/operate order of the SPCB and conditions imposed in EC and provisions of various environmental acts and rules are complied with and the report returns, compliances are submitted to the Board in due time.
10. Adequate numbers of scientific / technical persons having qualification in environmental engineering/ environmental science from recognized institution/ university must be engaged or appointed along with other interdisciplinary qualified persons to effectively implement and monitor different areas of environment management and regulatory compliances including air pollution control, water pollution control, online monitoring, real time data transmission, management of solid waste, hazardous waste, E-waste, plastic waste etc. The Head of the environmental cell should be a senior level official, who will directly report to the plant head to ensure that environmental management is performed effectively to ensure compliance to the environmental norms on priority basis.
11. Energy consumption data of different pollution control devices like ESP/ Bag filter/ Scrubber/ Cyclone/ Gas cleaning plant/ Fume treatment plant/ ETP/STP/Flow meters (treated effluent recycling) shall be collected online on real time centralized platform/ dashboard with data storage facility and generate tamperproof monthly / periodic reports, which shall be analysed by Energy Auditor, certified by Bureau of Energy Efficiency and accordingly the Energy Management / preventive maintenance of Pollution Control equipment shall be adopted. The energy management of process and pollution control devices shall be practiced to record the progressive achievements to minimize energy consumption in order to reduce greenhouse gas emission.
12. The post EIA monitoring schedule should be strictly followed for different parameters around the plant for the units is covered under EIA notification. The industry shall also conduct noise level study in the core zone and buffer zone of the industry and submit 6 monthly report to the Board.

F. SPECIAL CONDITIONS:

AIR POLLUTION CONTROL

1. All the air pollution control devices like ESPs / GCPs / Bag filters installed at various process units shall be maintained, operated efficiently and continuously so that particulate matter emission from the stack shall meet the prescribed standard of the Board as indicated in 'Table-C'. The industry shall ensure continuous and effective operation of all the APC devices through preventive maintenance.

2. All the potential fugitive dust generating areas of all the process units shall be covered with the adequate suction points. Fume generated from the induction furnaces shall be collected through adequately designed swiveling hoods. The collected dust / fumes shall be treated in the GCPs / Bag filters/ Scrubbers.

3. There shall be no leakage of flue gas through the emergency caps, slip rings or any other process areas of DRI kilns except during exigencies.

4. All the online continuous stack emission monitoring systems (CEMS) for measurement of particulate matter and gaseous pollutants shall be operated effectively & uninterruptedly and real time monitoring data so generated shall be transmitted directly to RT-DAS server of the Board without passing through any local PC or server.

5. All the online continuous ambient air quality monitoring stations (CAAQMS) shall be operated effectively & uninterruptedly and the online monitoring data so generated shall be transmitted directly to RT-DAS server of the Board without passing through any local PC or server.
6. The industry shall strictly follow the guidelines for continuous Emission Monitoring Systems dtd. August, 2018 for PM and other gaseous pollutants.
7. The industry shall ensure tamper proof real time transmission of online monitoring data to the server of CPCB and SPCB and maintain the health of the analyzers and data connectivity through valid AMC.
8. Appropriate air pollution control devices shall be installed to collect and treat the secondary emissions from tapping area and casting areas of Ferro alloy furnaces.
9. Steps shall be taken for regular monitoring of Mercury (Hg) in the stack of AFBC boiler and submit data to the Board.
10. The unit shall provide low NOx burners to reduce NOx emission to keep the level within the prescribed standard by MoEF & CC vide Notification dtd. 07.12.2015.
11. Steps shall be taken for installation of Flue Gas Desulpurisation (FGD) system in future if required to keep the SO2 level within 600mg/Nm3 to confirm the MoEF & CC Notification dtd. 07.12.2015. This shall also include management and disposal of effluent / solid waste to be generated from FGD system.
12. All the potential fugitive dust generating points of Ferro Alloys Plant and Briquetting plant shall be covered with the adequate suction points. The collected dust / fumes shall be treated in the GCPs / Bag filters.
13. Online monitoring system for PM, SO2, NOX, Hg for thermal power plants as per CPCB guideline for CEMS, July 2017 and Standards prescribed for these parameters by MoEF & CC Dt 7.12.2015 shall be complied.
14. The Pneumatic Dust Handling system installed at the hoppers of all the ESPs and bag filters shall be operated continuously and effectively so that no fugitive dust nuisance is created.
15. The installed HD IP camera shall be operated continuously so that video streaming shows in server of the Board on interruptedly.
16. Telescopic chute shall be installed at the bottom of hoppers/silo wherever applicable to prevent emission of fugitive dust during material transfer/unloading.
17. Iron ore and coal used in the plant shall be stored under covered shed. Material storage area of the plant, approach roads shall be covered with adequate sprinkling facility. The water sprinkling system shall be kept operational all the time to avoid any fugitive dust nuisance.
18. The performance evaluation of ESP, bag filter, air pollution control devices, online CEMS, CAAQMS & surveillance cameras shall conducted by reputed institute like NIT/IIT and annual report shall be submitted to the Board by end of June for the previous financial year.
19. The digital display board installed at the main gate shall be of minimum size of 6ft x 4ft as stipulated by CPCB with provision of display of real time data online analysers (CEMS, CAAQMS & CEQMS), so that the public can visualize the actual emission and the values of parameters displayed at the gate. Outdoor LED video screens should be preferred for digital display of environmental parameters, CTO and authorization conditions and awareness clippings on environment at the main gate, colony area and process area.

20. Online CO / Ammonia/ Chlorine and such other gas monitoring system shall be installed in every process area where such toxic gas are expected to be generated and in the plant premises along with alarm system to avoid accidental hazards due to gas leakage.
21. Dust suppression facilities by provision of adequate water sprinkling shall be made at the active dumping area and roads to prevent dust nuisance in the area.
22. The industry shall comply with all the stipulations contained in the Gazette Notification of Govt. of India vide No. 155, dtd. 31.03.2012 (copy enclosed). For emission standard, the details of 'Table-C' of this order is applicable.
23. Accumulation of dust and other solid waste in the work zone and non-dumping areas inside the factory premises shall be avoided. The work zone shall be properly cleaned either manually or mechanically every day and the dust so collected shall be disposed off in the designated dump site.
24. The unit shall use mechanical road sweeper for cleaning of dust from internal roads.
25. The approach roads and all the internal roads shall be fully concreted / blacktopped. All the roads shall be cleaned periodically to avoid accumulation of dust. Adequate sprinkling facility, preferably by fixed water sprinklers shall be provided alongside all the internal roads to prevent generation of fugitive dust during vehicular movement.
26. D.G. sets should be acoustically enclosed with anti-vibration measures and equipped with A.M.F. (Auto Mains Failure Device) for auto changeover of power supply from grid to D.G. in the event of power failure. The AMF Panel should preferably be PLC (Programmable Logic Control) based. Dedicated D.G. sets of adequate capacity shall be installed to ensure adequate standby power supply to run all pollution control devices of the plant in the event of power failure.
27. The industry shall put up sign Boards at appropriate places with nomenclature of the stacks in consultation with Regional Officer of the Board. It shall install electronic display Board in front of main gate to display the monitoring data, prescribed standard for public information.
28. The ambient air quality shall confirm to the National Ambient Air Quality standard as per the notification of MoEF dated 16 Nov 2009 (Annexed).

WATER POLLUTION CONTROL

1. Specific water consumption of AFBC power plant shall be limited within 3.5m3/MWh as per MoEF & CC vide Notification dtd. 07.12.2015.
2. Under no circumstances there shall be discharge of any effluent to outside the factory premises. Water used for cooling purposes shall be fully recycled. Water used in various processes shall be suitably treated and recycled in those processes.
3. Waste water generated from raw water treatment system and back wash of filtration plant shall be properly treated and taken to guard pond and reused.
4. Blow down from WHRB boiler / AFBC boilers and all the cooling towers shall meet the following standards before it is discharged to the common monitoring basin and shall be used for dust suppression;
   a. For boiler blow down: SS-100mg/l,O&G-20mg/l,Cu(Total)-1.0mg/l,Fe(Total)-1.0mg/l
   b. For cooling tower blow down: Free available chlorine-0.5mg/l, Zn-1.0mg/l, Cr (Total)-2.0mg/l, Phosphate-2.0mg/l.

5. The domestic effluent generated from canteen, plant building, staff quarters and bachelor colony shall be suitably treated in STPs so as to meet the prescribed standard of the Board as per Table 'B' before discharge/ reused.
6. The industry shall operate mechanized wheel washing system along with effluent treatment and recycling facilities for the raw material / product /solid waste transport vehicles at the exit point of the industry.
7. The performance evaluation of ETP, STP, online CEQMS & Web cameras, flow meter shall conducted by reputed Institute like NIT/IIT and annual report shall be submitted to the Board by end of June for previous financial year.
8. The runoff water from the whole factory premises including solid waste dumping area shall be collected through dedicated garland drains and shall be adequately treated by a series of settling tanks of appropriate capacity so as to meet the prescribed standard of the Board before discharge to outside / reused.
9. Chrome ore fines and briquettes shall be stored under covered shed.
10. The industry shall operate mechanized wheel washing system along with effluent treatment and recycling facilities for the raw material / product /solid waste transport vehicles at the exit point of the industry.
11. Dumping of solid waste shall be made at designated locations in a systematic manner with proper engineering applications by providing proper slope, angle, berms, height, toe wall, retaining wall and road network. The active dumping area shall be kept at minimum. The exhausted dump area shall be technically reclaimed by spreading a layer of soil with proper compaction and consolidation. Biological reclamation of the same shall be made by planting saplings of appropriate species. Adequate provision for watering of plants and protection of trees shall be made.
12. Domestic solid waste generated from colony, canteen, office complex etc shall be disposed through mechanically operated waste convertors with facility for recovery of useful products like oil/ gas/ carbon/ metal/ compost etc. The products can be used by the industry or sold and the inorganic residues can be used for captive consumption/ sold/ disposed in sanitary landfill developed inside the premises
13. The industry shall have adequate space at point of time for waste disposal at least for a period of next five years. Before using any new patch of land / site for solid waste dumping, the industry shall obtain prior consent to establish of the Board.
14. Consent to operate is subject to availability of all other statutory clearances required under relevant Acts / Rules and fulfillment of required procedural formalities.
15. The unit shall comply to the provisions of revised Fly Ash Notification No. SO.5481(E),dt. 31.12.2021 of MoEF & CC, Govt. of India.

G) ADDITIONAL CONDITIONS

1. The unit shall not use furnace oil in the Reheating Furnace of Rolling Mill and abide by the Fuel Policy of State Govt.
2. The industry shall complete concreting of balance work zone area of DRI Plant within 01 month.
3. The unit shall provide adequate number of rain guns at open raw materials stack yards within 03 months to control fugitive emission.

The occupier must comply with the conditions stipulated in section A, B, C, D E F & G to keep this consent order valid.

To,

The Director,
Aarti Steels Limited,
At- Ghantikhal, Po-Mahakalbasta,
Via- Athagarh, Dist-Cuttack-754029

Encl : As above

18/3/23

MEMBER SECRETARY
STATE POLLUTION CONTROL BOARD, ODISHA

Memo No. 4033 /Dt. 18-03-2023

Copy forwarded to ;

i) Regional Officer, State Pollution Control Board, **Cuttack**
ii) District Collector, **Cuttack**
iii) D.F.O, **Athagarh**
iv) Director of Mines, Odisha, **Bhubaneswar**
v) Director Factories & Boiler, **Bhubaneswar**
vi) Consent Register / HWM Cell, Bhubaneswar

18/3/23

CHIEF ENV. ENGINEER
STATE POLLUTION CONTROL BOARD, ODISHA

GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS
PART-A:EFFLUENTS

Sl.No.	Parameters	Standards			
		Inland surface	Public sewers	Land for irrigation	Marine Costal Areas
		(a)	(b)	(c)	(d)
1.	Colour & odour	Colourless/Odourless as far as practible	------	See 6 of Annex-1	See 6 of Annex-1
2.	Suspended Solids (mg/l)	100	600	200	For process wastewater – 100 b. For cooling water effluent 10% above total suspended matter of influent.
3.	Particular size of SS	Shall pass 850	-----	------	
5.	pH value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6.	Temperature	Shall not exceed 5^0C above the receiving water temperature	-------	--------	Shall not exceed 5^0C above the receiving water temperature
7.	Oil & Grease mg/l max.	10	20	10	20
8.	Total residual chlorine	1.0	----	------	1.0
9.	Ammonical nitrogen (as N) mg/l max.	50	50	------	50
10.	Total Kajeldahl nitrogen (as NH_3) mg/1 max.	100	----	------	100
11.	Free ammonia (as NH_3) mg/1 max.	5.0	----	------	5.0
12.	Biochemical Oxygen Demand (5 days at (20^0C) mg/1 max.	30	350	100	100
13.	Chemical Oxygen Demand, mg/1 max.	250	----	------	250
14.	Arsenic (as As) mg/1 max.	0.2	0.2	0.2	0.2
15.	Mercury (as Hg) mg/1 max.	0.01	0.01	------	0.001
16.	Lead (as pb) mg/1 max.	01.	1.0	------	2.0
17.	Cardmium (as Cd) mg/1 max.	2.0	1.0	------	2.0

18.	Hexavalent Chromium (as Cr + 6) mg/l max.	0.1	2.0	--------	1.0
19.	Total Chromium (as Cr) mg/l max.	2.0	2.0	---------	2.0
20.	Copper (as Cu) mg/l max.	3.0	3.0	--------	3.0
21.	Zinc (as Zn) mg/l max.	5.0	15	---------	15
22.	Selenium (as Sc) mg/l max.	0.05	0.05	---------	0.05
23.	Nickel (as Nil) mg/l max.	3.0	3.0	---------	5.0
24.	Cyanide (as CN) mg/l max.	0.2	2.0	0.2	0.02
25.	Fluoride (as F) mg/l max.	2.0	15	---------	15
26.	Dissolved Phosphates (as P) mg/l max.	5.0	-------	---------	--------
27.	Sulphide (as S) mg/l max.	2.0	--------	---------	5.0
28.	Phennolic compounds as (C_6H_5OH) mg/l max.	1.0	5.0	---------	5.0
29.	Radioactive materials a. Alpha emitter micro curle/ml. b. Beta emitter micro curle/ml.	10^7 10^6	10^7 10^6	10^8 10^7	10^7 10^6
30.	Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent
31	Manganese (as Mn)	2 mg/l	2 mg/l	---------	2 mg/l
32.	Iron (Fe)	3 mg/l	3 mg/l	---------	3 mg/l
33.	Vanadium (as V)	0.2 mg/l	0.2 mg/l	---------	0.2 mg/l
34.	Nitrate Nitrogen	10 mg/l	--------	---------	20 mg/l

NATIONAL AMBIENT AIR QUALITY STANDARDS

Sl. No.	Pollutants	Time Weighed Average	Concentrate of Ambient Air		
			Industrial Residential, Rural and other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement
(1)	(2)	(3)	(4)	(5)	(6)
1.	Sulphur Dioxide (SO_2), µg/m³	Annual * 24 Hours **	50 80	20 80	-Improved west and Gaeke - Ultraviolet fluorescence
2.	Nitrogen Dioxide (NO_2), µg/m³	Annual * 24 Hours **	40 80	30 80	- Modified Jacob & Hochheiser (Na-Arsenite) - Chemiluminescence
3.	Particulate Matter (size less than 10µm) or PM_{10}µg/m³	Annual * 24 Hours **	60 100	60 100	-Gravimetric - TOEM - Beta Attenuation
4.	Particulate Matter (size less than 2.5µm) or $PM_{2.5}$ µg/m³	Annual * 24 Hours **	40 60	40 60	-Gravimetric - TOEM - Beta Attenuation
5.	Ozone (O_3) µg/m³	8 Hours ** 1 Hours **	100 180	100 180	- UV Photometric - Chemiluminescence - Chemical Method
6.	Lead (Pb) µg/m³	Annual * 24 Hours **	0.50 1.0	0.50 1.0	-AAS/ICP method after sampling on EMP 2000 or equivalent filter paper. - ED-XRF using Teflon filter
7.	Carbon Monoxide (CO) mg/m³	8 Hours ** 1 Hours **	02 04	02 04	- Non Dispersive Infra Red (NDIR) Spectroscopy
8.	Ammonia (NH_3) µg/m³	Annual* 24 Hours**	100 400	100 400	-Chemiluminescence - Indophenol Blue Method
9.	Benzene (C_6H_6) µg/m³	Annul *	05	05	-Gas Chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis
10.	Benzo (a) Pyrene (BaP)-Particulate phase only, ng/m³	Annual*	01	01	-Solvent extraction followed by HPLC/GC analysis
11.	Arsenic (As), ng/m³	Annual*	06	06	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
12.	Nickel (Ni),ng/m³	Annual*	20	20	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper

** Annual arithmetic mean of minimum I04 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 08 hourly or 0I hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

EPABX : 2653800 / Tel : 2562368
E-mail: hwmd.spcbbbsr@gmail.com / paribesh1@ospcboard.org
Website: www. ospcboard.odisha.gov

STATE POLLUTION CONTROL BOARD, ODISHA

[FOREST, ENVIRONMENT AND CLIMATE CHANGE DEPARTMENT, GOVERNMENT OF ODISHA]
Paribesh Bhawan, A/118, Nilakantha Nagar, Unit – VIII
Bhubaneswar – 751012, INDIA

BY SPEED POST

FORM 2
[See rule 6(2)]

RENEWAL OF AUTHORISATION BY STATE POLLUTION CONTROL BOARD, ODISHA TO THE OCCUPIER UNDER HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES, 2016

1. Number of authorization: **IND-IV-HW-569/** 12542 and date of issue: 05-07-2025
2. Reference of application (No. and date): **6210248, dtd. 24-02-2025/ 20-06-2025.**
3. **M/s Aarti Steels Limited** is hereby granted an authorization based on the enclosed signed inspection report for generation, storage, transport, reuse, utilization, disposal or any other use of hazardous or other wastes or both in the premises situated **At - Ghantikhal, Po - Mahakalabasta, Via - Athagarh, Dist - Cuttack, Odisha - 754029.**

Details of Authorization

Sl. No.	Category of Hazardous Waste as per the Schedules I, II and III of these Rules	Waste Description	Quantity	Mode of Disposal
1.	Schedules - I Stream - 5.1	Used Oil	30 T/A	Storage in containers over impervious floor under well ventilated covered shed followed by disposal through Actual Users authorized by SPCB, Odisha.
2.	Schedules - I Stream - 5.2	Waste / Residues Containing Oil	1.7 T/A	Storage in impervious pits / containers under well ventilated covered shed followed by Co-processing in Cement Kilns Authorized by SPCB, Odisha / disposal in Authorized Hazardous Waste Incinerator / Common Hazardous Waste Treatment Storage Disposal Facility (CHWTSDF).

Sl. No.	Category of Hazardous Waste as per the Schedules I, II and III of these Rules	Waste Description	Quantity	Mode of Disposal
3.	Schedules - I Stream - 35.2	Spent Resin from DM Plant	3.5 T/A	Storage in impervious pits / containers under well ventilated covered shed followed by Co-incineration in CPP for energy recovery / Co-processing in Cement Kilns authorized by SPCB, Odisha / disposal in CHWTSDF
4.	Schedules - I Stream - 35.1	Flue Gas Cleaning Residue	1000 T/A	Storage on impervious floor with suitable parapet walls under well ventilated covered shed followed by utilization for manufacturing of briquettes for use as raw material in the furnace inside its factory premises / disposal through Actual Users having valid authorization from SPCB, Odisha / CHWTSDF

(1) The authorization shall be valid up to **31-03-2028.**

(2) The authorization is subject to the following general and specific conditions.

A. General Conditions of authorisation:

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.

2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.

3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.

4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.

5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire, etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.

6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty". Any accident in this respect shall be intimated to the Board immediately.

7. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.

8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its cleanup operation.

9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.

10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.

11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.

12. An application for the renewal of an authorization shall be made as laid down under these Rules.

13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

14. Annual return shall be filed by 30th day of June of every year for the preceding period from April to March.

B. Specific Conditions:

1. Authorization granted herewith does not relieve you in complying with other provision laid down under Water (PCP) Act, 1974, Air (PCP) Act, 1981 and Environment (Protection) Act, 1986, and the Rules made there under.

2. This authorization is subject to statutory and other clearances from Govt. of Odisha and / or Govt. of India as and when applicable.

3. In case the quantity of generation of hazardous Waste exceeds the Authorized quantity, the industry shall apply for amendment of Authorization order.

4. The industry shall strictly comply to the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and amendments made thereafter.

5. Annual returns in Form - 4 (See Rules- 6 (5), 13 (8), 16 (6) & 20 (2)) shall be submitted to the Board for the financial year by 30th June of every year. It shall contain the detail quantities of generation, storage and disposal of different type of hazardous wastes such as recyclable, incinerable, land disposable.

6. Steps shall be taken for reduction and prevention of the hazardous waste generated or for recycling or reuse.

7. Environmental Information with respect to Air, Water, Hazardous Waste and Hazardous Chemicals shall be displayed at the main gate for public view.

8. The transport of the hazardous and other waste shall be in accordance with the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard.

9. The occupier shall provide the transporter with the relevant information in **Form 9**, regarding the hazardous nature of the wastes and measures to be taken in case of an emergency and shall label the hazardous and other wastes containers as per **Form 8**.

10. In case of transportation of hazardous waste and other wastes for recycling or utilization including co-processing to outside the state, the sender shall intimate both the State Pollution Control Boards before handing over the waste to the transporter.

11. Manifest system (Movement document) shall be strictly followed as per Rule-19 and to be submitted to this office as per the Rule. The industry shall check the authenticity of the way bill of the transport vehicle to ensure supply of hazardous waste to the authorized destination.

12. The hazardous waste shall be sold if required only to Actual User having valid authorization from the State Pollution Control Board, Odisha and concerned SPC Board. Details of such wastes shall be entered in the passbook issued by respective SPCB.

13. All the hazardous waste shall be stored in impervious pits / containers / floors under cover shed with adequate capacity having spill containment facility. The spilled hazardous waste shall be re-collected and stored in impervious pits / containers / floors under cover shed prior to sale / disposal.

14. The schedule of hazardous waste and the quantity as specified shall only be disposed off as per the stipulation prescribed in this authorization.

15. This authorization does not permit you to either receive and process or generate hazardous waste in case validity of Consent to Operate of your industry ceases. However you can carry out handling, storage, treatment, transport and disposal of hazardous waste and other wastes generated previously during such period to avoid accumulation of hazardous waste.

16. The industry / mine shall store the accumulated hazardous waste for a period not exceeding 90 days and shall dispose as per the stipulation prescribed in this authorization order. In case, generation of any category of Hazardous Waste is less than 10 T/A, then such waste can be stored up to a period of 180 days before disposal. In case of any violation, authorization granted shall be suspended / cancelled.

17. The industry shall apply for renewal of authorization in Form-1, 120 days before expiry of this authorization order enclosing Annual Return in Form-4, Manifest copies in Form-10 and compliance to the conditions stipulated in this order along with adequate processing fees.

18. In case of transportation of hazardous and other waste, the responsibility of safe transport shall be either of the sender or the receiver whosoever arranges the transport and has the necessary authorization for transport from the concerned State Pollution Control Board. This responsibility should be clearly indicated in the manifest.

19. Hazardous Wastes having calorific value of more than 2500 Kcal/Kg shall not be landfilled. It can only be disposed through authorized Actual Users or incinerated in authorized Hazardous Waste incinerator or co-processing in authorized cement kiln.

20. The unit shall follow On-site and Off-site Emergency plan during all activities involving hazardous wastes to avert accidents, fire and other environmental damages.

21. The unit shall follow all safety protocols during handling, transportation and disposal of hazardous wastes.

22. The unit shall register on National Hazardous Wastes Tracking System (NHWTS) Portal of CPCB to manage the manifest, daily records of quantity generated, disposed, etc. of hazardous and other wastes.

5/7/25

Member Secretary

To

The Director
M/s Aarti Steels Limited
At - Ghantikhal, Po - Mahakalabasta,
Via -Athagarh,
Dist - Cuttack, Odisha - 754029

Memo No. _____ Dt. _____
Copy to the :

1. Collector & District Magistrate, **Cuttack.**
2. Director, Factories & Boilers, Odisha, **Bhubaneswar.**
3. Regional Officer, State Pollution Control Board, Odisha, **Cuttack.**
4. Guard file.

Additional Chief Environmental Engineer

Annexure 3 - Biomedical Waste Authorization

Tel / FAX: 0671-2335478
E-mail: spcbroctc@rediffmail.com
Website: www.ospcboard.org

OFFICE OF THE REGIONAL OFFICER, CUTTACK

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]
586, SURYAVIHAR, LINK ROAD, CUTTACK-753012

FORM – III (See Rule 10)

AUTHORIZATION ORDER

No. 2284 **/BM-647-SPCB/Authorization (Biomedical Waste) Date** 20/11/17

RO/CTC/BMW. 90 /17

Sub: ***Authorization under Biomedical Waste Management Rules, 2016 for operating a facility for generation, collection, reception, treatment, storage and disposal.***

Dispensary of M/s Aarti steels Limited occupier or operator of the facility located **At – Ghantikhal, PO-Mahakalabasta , Via- Athagarh in the District of Cuttack** is hereby granted an authorization for;

Activity	Please tick
Generation, Segregation	√
Collection,	√
Storage,	√
Packaging,	√
Reception,	
Transportation,	
Treatment or processing or conversion,	√
Recycling,	
Disposal or destruction,	√
Use offering for sale, transfer	
Any other form of handling	

This authorization shall be in force from the date of issue of this order until further order.

This authorization is subject to the conditions, standards & special conditions stated below.

(A) GENERAL CONDITIONS:

1. The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the prescribed authority i.e. State Pollution Control Board, Odisha.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the biomedical wastes without obtaining prior permission of the State Pollution Control Board, Odisha.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.

5. It is the duty of the authorized person to take prior permission of the State Pollution Control Board, Odisha to close down the facility.
6. It is the duty of the occupier to report major accidents including accidents caused by fire hazards, blasts during handling of biomedical waste and the remedial action taken and the records relevant thereto (including nil report) in Form-I to the prescribed authority and also along with the annual report.
7. The biomedical waste container shall be labeled as specified in Schedule-IV.
8. The vehicles used for transportation of biomedical waste shall comply with the conditions if any stipulated by the State Pollution Control Board in addition to the requirement contained in the Motor Vehicles Act, 1988 (59 of 1988), if any or the rules made there under for transportation of such infectious waste.
9. Untreated human anatomical waste, animal anatomical waste, soiled waste and biotechnology waste shall not be stored beyond a period of forty-eight hours.
10. The biomedical waste disposal site shall be properly fenced and suitable notice with warning shall be displayed.
11. The biomedical waste disposal site shall be selected and developed in a manner so that ground water, surface water or ambient air shall not be adversely affected.
12. Every authorized person shall maintain records related to the generation, collection, reception, storage, transportation, treatment, disposal or any other form of handling of biomedical waste, for a period of five year, in accordance with these rules and all records shall be subject to inspection and verification of the officials of State Pollution Control Board, Odisha at any time.
13. The State Pollution Control Board, Odisha reserves the right to modify, revoke or review the authorization granted.

(B) STANDARDS FOR TREATMENT AND DISPOSAL OF BIOMEDICAL WASTES:

1. STANDARDS FOR AUTOCLAVING.

The autoclave should be dedicated for the purpose of disinfecting and treating biomedical waste.

When operating a gravity flow autoclave, medical waste shall be subjected to the following standards.

TEMPERATURE (In degree centigrade).	PRESSURE (Pounds per square inch).	REIDENCE TIME (In minutes).
Not less than 121	15	Not less than 60
Not less than 135	31	Not less than 45
Not less than 149	52	Not less than 30

When operating a vacuum autoclave, medical waste shall be subjected to a minimum of three pre-vacuum pulses to purge the autoclave of all air. The air removed during the pre-vacuum, cycle should be decontaminated by means of HEPA and activated carbon filtration, steam treatment, or any other method to prevent release of pathogen. The waste shall be subjected to the following:

TEMPERATURE (In degree centigrade).	PRESSURE (Pounds per square inch).	REIDENCE TIME (In minutes).
Not less than 121	15	Not less than 45
Not less than 135	31	Not less than 30

Medical waste shall not be considered properly treated unless the time, temperature and pressure indicators indicate that the required time, temperature and pressure were reached during the autoclave process. If for any reasons, time, temperature or pressure indicator indicates that the required temperature, pressure or residence time was not reached, the entire load of medical waste must be autoclaved again until the proper temperature, pressure and residence time are achieved.

2. STANDARDS FOR LIQUID WASTE:

i) The effluent generated or treated from the premises of occupier or operator of a common biomedical waste treatment and disposal facility, before discharge into the sewer should conform to the following limits:

PARAMETERS	PERMISIBLE LIMITS
pH	6.6 – 9.0
Suspended solids	100 mg/l
Oil and grease	10 mg/l
BOD	30 mg/l
COD	250 mg/l
Bio-assay test	90% survival of fish after 96 hours in 100% effluent.

ii) Sludge from Effluent Treatment Plant shall be given to common biomedical waste treatment facility for incineration or to hazardous waste treatment, storage and disposal facility for disposal.

3. **STANDARDS FOR DEEP BURIAL:**

a) A pit or trench should be dug about 2 meters deep. It should be half filled with waste, then covered with lime within 50 cm of the surface before filling the rest of the pit with soil.

b) It must be ensured that animals do not have any access to burial sites.

c) On each occasion when wastes are added to the pit a layer of 10 cm of soil shall be added to cover the wastes.

d) Burial must be performed under close and dedicated supervision.

e) The deep burial site should be relatively impermeable and no shallow well should be close to the site.

f) The pit should be distant from the habitation and sited so as to ensure that no contamination occurs of any surface water or ground water. The area should not be prone to flooding or erosion.

g) The location of the deep burial site will be authorized by State Pollution Control Board, Odisha, Bhubaneswar.

h) The facilitator (authorized person) shall maintain a record of all pits for deep burial.

i) The ground water table level should be a minimum of six meters below the lower level of deep burial pit.

4. **STANDARDS FOR EFFICACY OF CHEMICAL DISINFECTION:**

Microbial inactivation efficacy is equated to "Log 10 (kill)" which is defined as the difference between the logarithms of number of test microorganisms before and after chemical treatment. Chemical disinfection methods shall demonstrate a 4 Log 10 reduction or greater for Bacillus Subtilis (ATCC 19659) in chemical treatment systems.

(C) SPECIAL CONDITIONS:

1. This authorization is issued for 0 no. of beds(Nil). For any increase in number of beds, the applicant shall obtain prior permission of the prescribed authority.
2. Treated Biomedical wastes shall not be mixed with general wastes. Under no circumstances untreated biomedical waste shall be handed over to the Municipality / NAC for disposal in landfill site.
3. Biomedical wastes shall be segregated in to coloured containers / bags at the point of generation as per Schedule-I of the rules and shall be followed by proper quantification of different categories of waste. The containers shall be labeled with biohazards and cytotoxic symbol.
4. The occupier shall treat the segregated biomedical wastes in the manner described or **shall ensure requisite treatment of segregated wastes at the common facility, authorized by State Pollution Control Board.**

Part- 1

Category	Type of waste	Type of Bags or Container to be used.	Treatment and Disposal options.
(1)	(2)	(3)	(4)
Yellow	a) **Human Anatomical Waste:** Human tissues, organs, body parts and fetus below the viability period (as per the Medical Termination of	Yellow coloured non-chlorinated plastic bags.	Incineration or Plasma Pyrolysis or deep burial*

	Pregnancy Act, 1971, amended from time to time)		
	b) **Animal Anatomical waste:** Experimental animal carcasses, body parts, organs, tissues including the waste generated from animals used in experimental of testing in veterinary hospitals or colleges or animal houses.		
	c) **Solid Waste:** Items contaminated with blood, body fluids like dressing, plaster casts, cotton swabs and bags containing residual or discarded blood and blood components.		Incineration or Plasma Pyrolysis or deep burial*. In absence of above facilities, autoclaving or micro-waving/ hydroclaving followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery.
	d) **Expired or Discarded Medicines:** Pharmaceutical waste like antibiotics, cytotoxic drugs including all items contaminated with cytotoxic drugs along with glass or plastic ampoules, vials etc.	Yellow coloured non-chlorinated plastic bags or containers.	Expired cytotoxic drugs and items contaminated with cytotoxic drugs to be returned back to the manufacturer or supplier for incineration at temperature > 1200^{0}C or to common biomedical waste treatment facility or hazardous waste treatment, storage and disposal facility for incineration at > 1200^{0}C or Encapsulation or Plasma Pyrolysis at > 1200^{0}C. All other discarded medicines shall be either sent back to manufacturer or disposed by incineration.
	e) **Chemical Waste:** Chemical used in production of biological and used or discarded disinfectants.	Yellow coloured containers or non-chlorinated plastic bags.	Disposed of by incineration or Plasma Pyrolysis or Encapsulation in hazardous waste treatment, storage and disposal facility.
	f) **Chemical liquid Waste:** Liquid waste generated due to use of chemicals in production of biological and used or discarded disinfectants, Silver X-ray film developing liquid, discarded Formalin, **infected secretions, aspirated body fluids,**	Separate collection system leading to effluent treatment system.	After resource recovery, the chemical liquid waste shall be pre-treated before mixing with other wastewater. The combined discharge shall conform to the discharge

	liquid from **laboratories** and floor washing, cleaning, housekeeping and disinfecting activities etc.		norms given in Schedule-III.
	g) Discarded linen, mattresses, bedding contaminated with blood or body fluid.	Non-chlorinated yellow plastic bags or suitable packing material.	Non-chlorinated chemical disinfection followed by incineration or Plasma Pyrolysis or for energy recovery. In absence of above facilities, shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery or incineration or Plasma Pyrolysis.
	h) **Microbiology, Biotechnology & other clinical laboratory waste:** Blood bags, Laboratory cultures, stocks or specimens of microorganisms, live or attenuated vaccines, human and animal cell cultures used in research, industrial laboratories, production of biological, residual toxins, dishes and devices used for cultures.	Autoclave safe plastic bags or containers.	Pre-treat to sterilize with non-chlorinated chemicals on-site as per National AIDS Control Organization or World Health Organization guidelines thereafter for incineration.
Red	**Contaminated Waste (Recyclable).** Wastes generated from disposable items such as tubing, bottles, intravenous tubes and sets, catheters, urine bags, syringes (without needles and fixed needle syringes) and vaccutainers with their needles cut) and gloves.		
White (Translucent)	**Waste sharps including Metals:** Needles, syringes with fixed needles, needles from needle tip cuter or burner, scalpels, blades or any other contaminated sharp object that may cause puncture and cuts. This includes used, discarded and contaminated metal sharps.	Puncture proof, Leak proof, Temperature proof containers.	Autoclaving or Dry Heat Sterilization followed by shredding or mutilation or encapsulation in metal container or cement concrete combination of shredding cum autoclaving and sent for final disposal to iron foundries (having consent to operate from the State Pollution Control Board or Pollution Control Committees) or sanitary landfill or designated concrete waste sharp pit.

Blue	a) **Glassware:** Broken or discarded and contaminated glass including medicine vials and ampoules except those contaminated with cytotoxic wastes.	Cardboard boxes with blue colored marking.	Disinfection (by soaking the washed glass waste after cleaning with detergent and sodium hypochlorite treatment) or through autoclaving or microwaving or hydroclaving and then sent for recycling.
	b) **Metallic Body Implants.**	Cardboard boxes with blue colored marking.	

- ***Disposal by deep burial is permitted only in rural or remote areas where there is no access to common biomedical waste treatment facility. This will be carried out with as per the Standards specified in Schedule-III. The deep burial facility shall be located as per the provisions and guidelines issued by Central Pollution Control Board from time to time.***

Part- 2.

1. All plastic bags shall be as per BIS standards as and when published, till then the prevailing Plastic Waste Management Rules shall be applicable.
2. Chemical treatment using at least 10% Sodium Hypochlorite having 30% residual chlorine for twenty minutes or any other equivalent chemical reagent that should demonstrate Log104 reduction efficiency for microorganisms as given in Schedule-III.
3. Mutilation or shredding must be to an extent to prevent unauthorized reuse.
4. Dead Fetus below the viability period (as per the Medical Termination of Pregnancy Act, 1971, amended from time to time) can be considered as human anatomical waste. A official Medical Termination of Pregnancy certificate from the Obstetrician or the Medical Superintendent of hospital or health care establishment shall be obtained and recorded. The waste shall be disposed in deep burial pit.
5. Cytotoxic drug vials shall not be handed over to unauthorized person under any circumstances. These shall be sent back to the manufacturers for necessary disposal at a single point.
6. Residual or discarded chemical wastes, used or discarded disinfectants and chemical sludge can be disposed at hazardous waste treatment, storage and disposal facility. In such case, the waste should be sent to hazardous waste treatment, storage and disposal facility through operator of common biomedical waste treatment and disposal facility only.
7. On-site pre-treatment of laboratory waste, microbiological waste, blood samples, blood bags should be disinfected or sterilized as per the guidelines of World Health Organization or National AIDS Control Organization before disposal.
8. Installation of in-house incinerator is not allowed. However, in case there is no common biomedical facility nearby, the same may be installed by the occupier after taking authorization from the State Pollution Control Board.
9. Syringes should be either mutilated or needles should be cut and or stored in tamper proof, leak proof and puncture proof containers for sharps storage. It shall be the responsibility of the occupier to sterilize and dispose these waste in the manner prescribed.
10. The treatment and deposal of biomedical waste shall be carried out in compliance to the standards specified in B (1, 2, 3, 4 & 5) of this authorization order.
11. The waste containing equal to or more than 50 ppm of mercury is treated as hazardous waste and it shall be disposed off as per the Hazardous & Other Wastes (Management and Trans-boundary Movement) Rules, 2016.
12. The authorized person of the unit shall maintain and update on day to day basis the biomedical waste management register and display the monthly record on its website according to the biomedical waste generated in terms of category and colour coding as specified in Schedule-I.
13. The health care unit shall submit the statement regarding spillage and collection of mercury during the period January to December along with the annual report in Form-IV by 30th of June of every year.

14. The waste containing equal to or more than 5 gm/kg of silver is treated as hazardous waste and it shall be disposed off as per the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016.
15. The occupier will obey all the lawful instructions issued by the Board officers from time to time.
16. The occupier shall pre-treat the laboratory waste, microbiological waste, blood samples and blood bags through disinfection or sterilization on-site in the manner as prescribed by the World Health Organization (WHO) or National AIDs Control Organization (NACO) guidelines and then sent to the common biomedical waste treatment facility for final disposal.
17. The occupier shall phase out use of chlorinated plastic bags, gloves and blood by March 27, 2018.
18. The occupier shall provide training to all its health care workers and others, involved in handling of biomedical waste at the time of induction and thereafter at least once every year and the details of training programmes conducted, number of personnel trained and number of personnel not undergone any training shall be provided in the Annual Report.
19. The occupier shall immunize all its health care workers and others, involved in handling of biomedical waste for protection against diseases including Hepatitis "B" and Tetanus that are likely to be transmitted by handling of biomedical waste, in the manner as prescribed in the National Immunization Policy or the guidelines of the Ministry of Health and Family Welfare issued from time to time.
20. The occupier shall establish a Bar Code System for bags or containers containing biomedical waste to be sent out of the premises or place for any purpose by March 27, 2017.
21. The occupier shall ensure treatment and disposal of liquid waste in accordance with the Water (Prevention &Control of Pollution) Act, 1974 (6 of 1974).
22. The occupier shall conduct health check up at the time of induction and at least once in a year for all its health care workers and others involved in handling of biomedical waste and maintain the records for the same.
23. The occupier shall make available the annual report on its web-site and all the health care facilities shall make own website by March 27, 2018.
24. The occupier shall establish a system to review and monitor the activities related to biomedical waste management, either through an existing committee or by forming a new committee and the Committee shall meet once every six months and the record of the minutes of the meetings of this committee shall be submitted along with the annual report to the prescribed authority and the health care establishments having less than thirty beds shall designate a qualified person to review and monitor the activities relating to biomedical waste management within that establishment and submit the annual report.
25. The unit shall apply for renewal of authorization in Form-II as per Biomedical Waste Management Rules, 2016 before four months from the date of expiry of this authorization order enclosing all necessary documents and compliance to the conditions stipulated in this order.

20/11/12

REGIONAL OFFICER

To

Sri LTP Narayan, President,
Dispensary of M/s Aarti Steels Limited,
At- Ghantikhal, PO- Mahakalabasta,
Dist. Cuttack, Odisha

Memo No:_____/Dtd._____

Copy to Member Secretary, State Pollution Control Board, Odisha, Bhubaneswar / Guard File, for kind information.

/

REGIONAL OFFICER

AARTI STEELS LIMITED

Safety, Health, Environment & Quality Policy

We at Aarti Steels Limited, continuously strive to satisfy all our customers by providing quality product and stakeholders by maintaining green, clean, safe & healthy environment in and around our plant while looking forward to foster responsible corporate image.

In order to achieve the same we are committed to:

- Produce goods and provide services up to the expectation of our customers,
- Protect environment and prevent pollution through optimum resource utilization, minimization of emission, efficient waste management and development of green belt in and around our plant,
- Provide safe & healthy working condition for preventing injury & ill health, eliminate hazards and reduce occupational health & safety risks,
- Ensure consultation and participation of workers to drive occupational health & safety management system improvements,
- Comply to all applicable legal & other requirements to which organisation subscribes and
- Continually improve our Integrated Management System performance by creating awareness.

9th September'2019

Rajeev Mittal
Director

Works: Ghantikhal, P.O.: Mahakalabasta,
Via : Athagarh, Dist.: Cuttack-754029 (Orissa)
Corporate Office: Plot No.: 11/1B/41, Sector-11, CDA, Cuttack-14 (Orissa).

AARTI STEELS LIMITED
(STEEL & POWER)
Ghantikhal

ENVIRONMENTAL POLICY

AARTI STEELS LIMITED IS COMMITTED TO CREATE CLEAN & GREEN ENVIRONMENT & IMPROVED WORKING CONDITIONS.

INORDER TO ATTAIN THIS, WE SHALL:

**** CREATE EMPLOYEE AWARNESS BY PROPER TRAINING FOR CONTINUOUS IMPROVEMENT OF ENVIRONMENTAL PERFORMANCE.***

**** CONTINUOUSLY MONITOR & IMPROVE THE WORKING ENVIRONMENT.***

**** MINIMISE GENERATION & MAXIMISE RECYCLING OF WASTES.***

****PREVENT CONTAMINATION OF THE ENVIRONMENT & MINIMISE ENVIRONMENTAL POLLUTION HAZARDS.***

**** ENSURE EFFICIENT USE & CONSERVATION OF RESOURCES BY EFFECTIVE MANAGEMENT PRACTICES AND TECHNOLOGICAL MEASURES.***

**** ENSURE COMPLIANCE OF APPLICABLE LEGAL REQUIREMENTS AND WITH OTHER REQUIREMENTS RELATING TO OUR ENVIRONMETAL ASPECTS.***

Steps taken by Aarti Steels Limited for implementation of it's Environmental Policy

1) Create Employee awareness by proper training for continuous improvement of environmental performance.

*Conducted Environmental Quiz competition amongst our employees.

*Displayed Environmental Policy Board near main gate & Posters in various departments for information to all concerned.

*Formulated & Displayed Environmental Pledge.

*Displayed Environmental Slogan boards in side our plant premises in Oriya,Hindi & English language.

*Displayed Environmental monitoring information Board in Administrative Building.

* Displayed Environmental information board near main gate for information of all.

* Environmental messages are being circulated monthly in various units of our plant.

*Departmental Environment Training Programme by our Environment Department is being conducted.

2) Continuously monitor & improve the working condition.

*Developed proper Environmental monitoring facilities.

*Environmental Monitoring is being carried out as per the guidelines of S.P.C.B.

*Proper House keeping practice is being carried out to improve the working conditions as per MOEF &Factories Act guidelines.

*Occupational Health Check up of all employees is being carried out as per MOEF &Factories Act guidelines.

*Developed gardens in various units of our plant for improving aesthetic value as well as pollution control.

*Green Belt Development is being carried out as per the MOEF guidelines. Till date the company has planted 42000 nos of trees inside the plant premises to contain pollutant.

*Regular water spraying is being practiced on internal roads to control fugitive emission.

*Internal Roads Black Topping work is in progress to control Fugitive Emission.

3) Minimise generation & maximize recycling of wastes.

COMPLIED

*Recycling waste water generated by Coal Washery & WTP.

*Pollution control devices are being operated round the clock to minimize generation of pollutant.

*Fraction of Fly Ash generated from AFBC boiler is being disposed to the Fly Ash Brick Manufacturing unit.

*Use of WHRB gas for power generation there by reducing emission of green house gases.

*Installed slag crushing unit inside our plant premises for iron recovery from slag.

*Solid waste generated in Coal Washery is being used in AFBC Boiler partly.

*Char generated in D.R.I.unit is being used in AFBC Boiler partly.

*Recycling waste water generated by Coal Washery & WTP to ensure zero discharge.

*Pipelines and pumps has been installed for recycling the decanted water from Ash Pond for reuse in slurry making which will reduce the drawal of water from river.

4) **Prevent Contamination of the Environment & Minimize Environmental Pollution Hazards**

*Proper Hazardous Substance management system has been developed.

*Proper solid waste management plan has been developed and is being implemented.

*We took the following steps to control the run off of black particles with rainwater to outside of our plant premises due to adverse sloping land contour.

*Developing and implementing On Site Emergency Plan.-Formulating Off Site Emergency Plan.

*We took the following steps to control the run off of black particles with rainwater to outside of our plant premises due to adverse sloping land contour:

- Constructed dwarf wall around the dolochar dumping area and Raw Material Yard to catch the char particle being carried out by rain water.

-Constructed Garland Drain with suitable settling pits around the Raw Material Yard so that coal particles settle in the pits and clean water is discharged outside plant boundary.

5. **Ensure efficient use & conservation of resources by effective management practices and technological measures**.

*Installation of Capacitor Bank towards conservation of energy.

*Displayed information boards and messages for Public & Employees information towards conservation & efficient use of resources i.e. Fuel, Raw Material, Energy & Water for a better tomorrow.

* Use of WHRB gas for power generation there by ensuring conservation of resources.

*Use of fine coal generated in Coal Washery to reduce consumption of fresh coal.

*Use of dolochar in AFBC boiler to the extent possible which will reduce the requirement of coal.

6. Ensure Compliance of all applicable Environment (Protection) Act & Rules

* SPCB (NOC) & MOEF Environmental Clearance specific and general conditions are being followed.

*Environment Management Plan is being implemented.

*Air(PCP)Act,1981,Water(PCP)Act,1974,Hazardous Waste (M&H) Rule,1989,Noise Pollution(R&C) Rules,2000,Battery(M&H) Rules,2001,The Env.(P) Rules,1986 etc are being complied.

*Socio-Economic development activities in the surrounding villages like community development programme, school development, drinking water supply & health care are being carried out.

*Regular Health Check up of employees is being conducted as per MOEF guidelines.

*Constituted Environment Management Cell in Sept.,2005 to look after the Environmental Management and Pollution Control affairs of the organization, which is fully functional.

*Action Plan for Green Belt development in plant area has been undertaken in a phased manner.

*Water Cess is being paid as per Water Cess Act guidelines.

Steps taken by Aarti Steels Limited for continuous and satisfactory environmental compliance

1) Create Employee awareness by proper training for continuous improvement of environmental performance.

*Conducting Environmental Quiz competition amongst our employees.

*Displayed Environmental Policy Board near main gate & Posters in various departments for information to all concerned.

*Formulated & Displayed Environmental Pledge.

*Displayed Environmental Slogan boards in side our plant premises in Oriya,Hindi & English language.

*Displayed Environmental monitoring information Board in Administrative Building.

* Displayed Environmental information board near main gate for information of all.

* Environmental messages are being circulated monthly in various units of our plant.

*Departmental Environment Training Programme by our Environment Department is being conducted.

2) Continuously monitor & improve the working condition.

*Developed proper Environmental monitoring facilities.

*Environmental Monitoring is being carried out as per the guidelines of S.P.C.B.

*Work zone air quality monitoring is being carried out.

*Proper House keeping practice is being carried out to improve the working conditions as per MOEF &Factories Act guidelines.

*Occupational Health Check up of all employees is being carried out as per MOEF &Factories Act guidelines.

*Developed gardens in various units of our plant for improving aesthetic value as well as pollution control.

*Green Belt Development is being carried out as per the MOEF guidelines. Till date the company has planted more than 40000 nos of trees inside the plant premises to contain pollutant.

*Developed Nursery inside our plant premises.

*Regular water spraying is being practiced on internal roads to control fugitive emission.

*Provision of rotating sprinklers at strategic locations to control fugitive emission.

*2 KM Internal Roads Black Topping work has already been completed to control Fugitive Emission. Balance 2 Km black topping work shall be ompleted by Dec.2009.

3) Minimise generation & maximize recycling of wastes.

COMPLIED

*Recycling waste water generated by Coal Washery & WTP.

*Pollution control devices are being operated round the clock to minimize generation of pollutant.

*Fraction of Fly Ash generated from AFBC boiler is being utilized for Ash Dyke Raising.Fraction of Bottom Ash generated is being utilized for land filling/soil conditioner for plantation development.

*Use of WHRB gas for power generation there by reducing emission of green house gases.

*Installed slag crushing unit inside our plant premises for iron recovery from slag.

*Coal fines generated in Coal Washery is being utilized as fuel in AFBC Boiler.

*Installed discard crushing circuit at Coal Washery for utilization of discard coal after crushing.

*Char feeding system in boiler for utilization of this waste material has already been installed .Now,we are providing dust extraction system in the char grinding circuit.The circuit will be started after commissioning of the dust extraction system.

*Recycling waste water generated by Coal Washery & WTP to ensure zero discharge.

*Pipelines and pumps has been installed for recycling the decanted water from Ash Pond for reuse in slurry making which will reduce the drawal of water from river.

4) **Prevent Contamination of the Environment & Minimize Environmental Pollution Hazards**

*Proper Hazardous Substance management system has been developed.

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*Installation of Capacitor Bank towards conservation of energy.

*Displayed information boards and messages for Public & Employees information towards conservation & efficient use of resources i.e. Fuel, Raw Material, Energy & Water for a better tomorrow.

* Use of WHRB gas for power generation there by ensuring conservation of resources.

*Use of fine coal generated in Coal Washery in AFBC Boiler to reduce consumption of fresh coal.

*Use of dolochar in AFBC boiler to the extent possible which will reduce the requirement of coal.

6. Ensure Compliance of all applicable Environment (Protection) Act & Rules

* **S**PCB (NOC) & MOEF Environmental Clearance specific and general conditions are being followed.

*Environment Management Plan is being implemented.

*Recommendations made in CREP is being implemented.

*Recommendations made in guidelines/code of practices for pollution prevention by sponge iron plants of SPCB is being followed.

*Air (PCP) Act 1981, Water (PCP) Act 1974, Hazardous Waste (M&H) Rule 1989, Noise Pollution (R&C) Rules 2000, Battery (M&H) Rules 2001, The Env.(P) Rules 1986 etc are being complied.

*Socio-Economic development activities in the surrounding villages like community development programme, school development, drinking water supply & health care are being carried out.

*Regular Health Check up of employees is being conducted as per MOEF guidelines.

*Celebration of World Environment Day & Banomahastavaweek.

*Constituted Environment Management Cell in Sept., 2005 to look after the Environmental Management and Pollution Control affairs of the organization, which is fully functional.

*Action Plan for Green Belt development in plant area has been undertaken in a phased manner.

*Water Cess is being paid as per Water Cess Act guidelines.

Mitra S. K. Private Limited

Building No. P-48,
Udayan Industrial Estate,3,
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Kolkata 700015.
Tel. : 91 7044036120. **Fax** : 91 33 23230078.
Email : udayanlab@mitrask.com

TEST REPORT

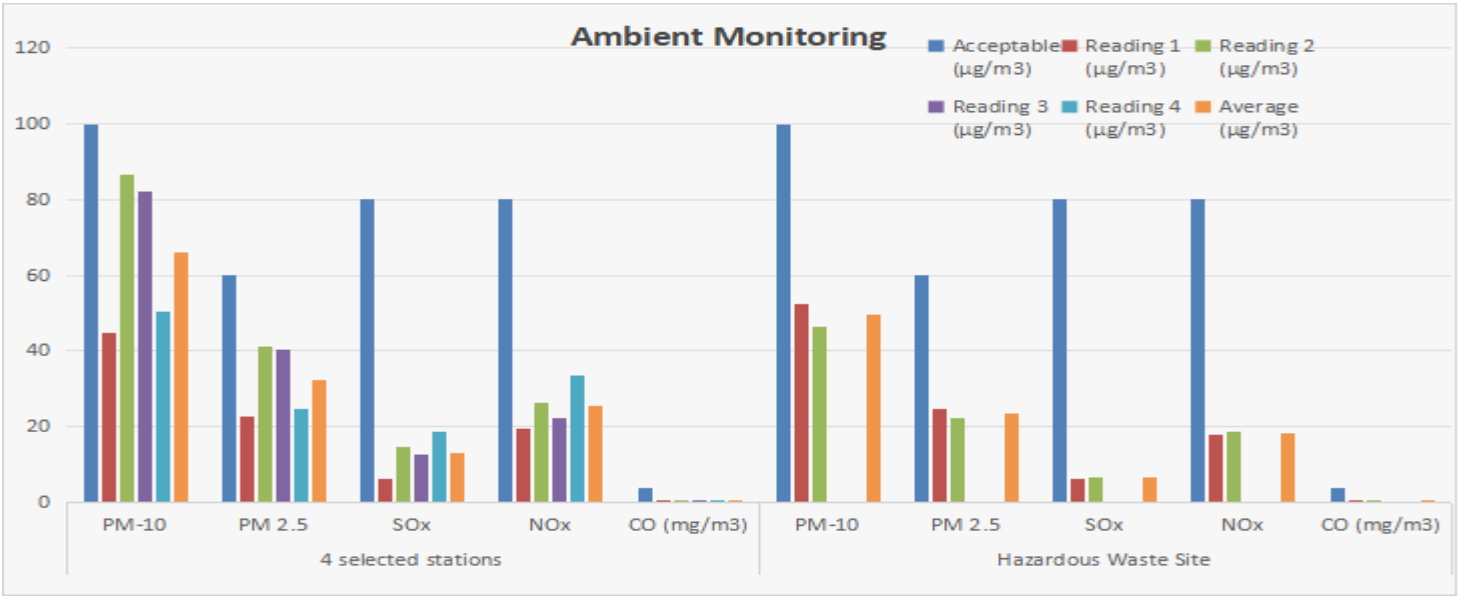
Name & Address of the Customer :	**Report No. :** BBS/805
AARTI STEELS LIMITED	**Date :** October'25 – March'26
Ghantikhal , Athagarh , Cuttack	**Description :** Six month Data for EC Compliance
	Location : Plant
	Details : Ambient Air, Stack, Fugitive, Noise, STP

ANALYSIS RESULT

MONITORING AND MEASUREMENT OF ENVIRONMENTAL PARAMETERS (2025-26) (from October - 2025 to March - 2026)

1. Ambient Monitoring

AAQ in Plant Premises	Parameter(s)	Acceptable (µg/m3)	Reading 1 (µg/m3)	Reading 2 (µg/m3)	Reading 3 (µg/m3)	Reading 4 (µg/m3)	Average (µg/m3)
4 selected stations	PM-10	100	44.80	86.40	82.20	50.50	65.98
	PM 2.5	60	22.60	41.20	40.40	24.88	32.27
	SOx	80	6.20	14.80	12.60	18.80	13.10
	NOx	80	19.60	26.30	22.40	33.46	25.44
	CO (mg/m3)	4.00	0.58	0.24	0.20	0.30	0.33
Hazardous Waste Site	PM-10	100	52.50	46.40			49.45
	PM 2.5	60	24.70	22.20			23.45
	SOx	80	6.40	6.80			6.60
	NOx	80	17.80	18.60			18.20
	CO (mg/m3)	4.00	0.58	0.46			0.52



Mitra S. K. Private Limited

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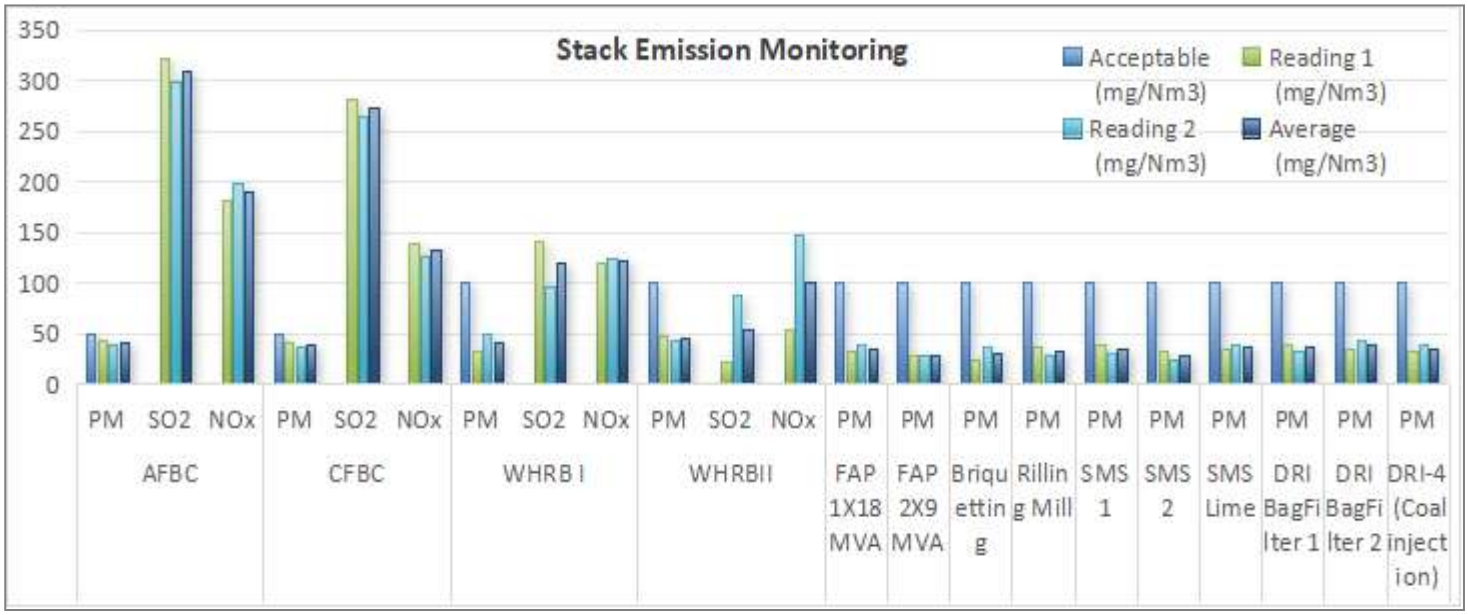
Kolkata 700015.
Tel. : 91 7044036120. **Fax** : 91 33 23230078.
Email : udayanlab@mitrask.com

2. Stack Emission Monitoring

Sl. No.	Sampling point	Parameters	Acceptable (mg/Nm3)	Reading 1 (mg/Nm3)	Reading 2 (mg/Nm3)	Average (mg/Nm3)
1	AFBC	PM	**50**	42.80	39.64	41.22
		SO2	**600**	320.80	297.60	309.20
		NOx	**300**	180.20	197.62	188.91
2	CFBC	PM	**50**	41.60	37.60	39.60
		SO2	**600**	280.40	264.82	272.61
		NOx	**300**	138.60	125.61	132.11
3	WHRB I	PM	**100**	31.67	48.90	40.29
		SO2		140.60	96.40	118.50
		NOx		119.40	124.60	122.00
4	WHRBII	PM	**100**	46.84	42.80	44.82
		SO2		21.80	86.80	54.30
		NOx		53.93	146.70	100.32
5	FAP 1X18MVA	PM	**100**	31.80	38.20	35.00
6	FAP 2X9MVA	PM	**100**	28.40	27.60	28.00
7	Briquetting	PM	**100**	24.00	35.80	29.90
8	Roilling Mill	PM	**100**	36.40	28.40	32.40
9	SMS 1	PM	**100**	38.60	29.40	34.00
10	SMS 2	PM	**100**	31.40	24.60	28.00
11	SMS Lime	PM	**100**	34.00	38.60	36.30
12	DRI BagFilter 1	PM	**100**	39.80	31.61	35.71
13	DRI BagFilter 2	PM	**100**	34.70	43.55	39.13
14	DRI-4 (Coal injection)	PM	**100**	32.60	37.82	35.21



Mitra S. K. Private Limited

Building No. P-48,
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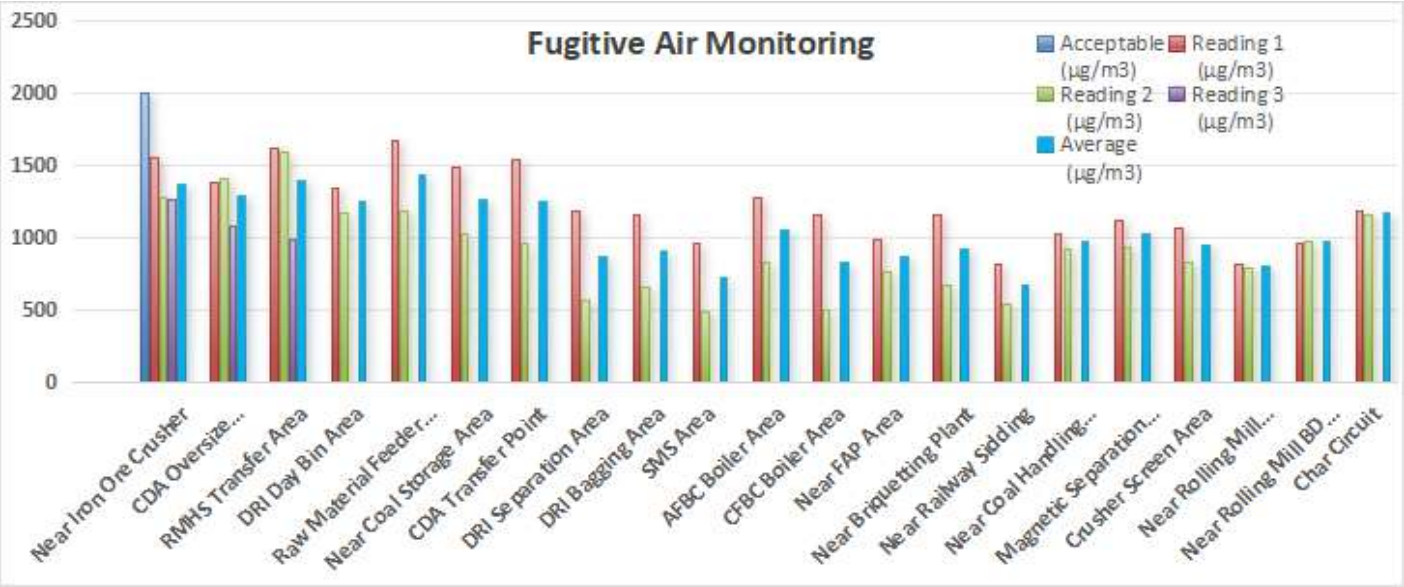
Pagladanga Road
Kolkata 700015.
Tel. : 91 7044036120. **Fax** : 91 33 23230078.
Email : udayanlab@mitrask.com

3. Fugitive Emission Monitoring

Sl. No.	Sampling Location	Acceptable (µg/m3)	Reading 1 (µg/m3)	Reading 2 (µg/m3)	Reading 3 (µg/m3)	Average (µg/m3)
1	Near Iron Ore Crusher	2000	1550	1280	1260	1363.33
2	CDA Oversize Discharge Area		1380	1410	1080	1290.00
3	RMHS Transfer Area		1620	1590	980	1396.67
4	DRI Day Bin Area		1340	1164		1252.00
5	Raw Material Feeder Area		1670	1180		1425.00
6	Near Coal Storage Area		1490	1020		1255.00
7	CDA Transfer Point		1530	964		1247.00
8	DRI Separation Area		1180	560		870.00
9	DRI Bagging Area		1160	660		910.00
10	SMS Area		960	480		720.00
11	AFBC Boiler Area		1280	830		1055.00
12	CFBC Boiler Area		1160	492		826.00
13	Near FAP Area		980	761		870.50
14	Near Briquetting Plant		1160	674		917.00
15	Near Railway Sidding		810	536		673.00
16	Near Coal Handling Plant		1020	917		968.50
17	Magnetic Separation Area		1120	934		1027.00
18	Crusher Screen Area		1060	822		941.00
19	Near Rolling Mill Furnace Area		810	784		797.00
20	Near Rolling Mill BD Area		960	973		966.50
21	Char Circuit		1180	1154		1167.00



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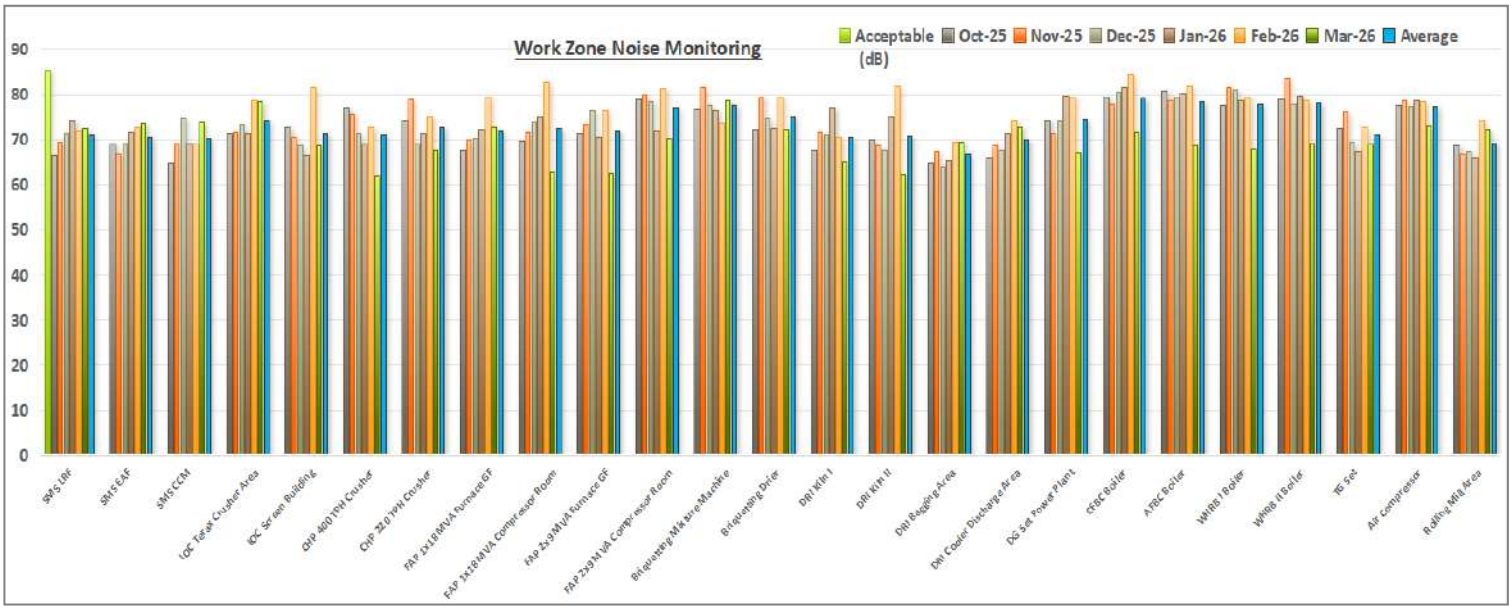
4. Work Zone Noise Monitoring

Sl. No.	Sampling Location	Acceptable (dB)	Oct-2025	Nov 2025	Dec-2025	Jan-2026	Feb-2026	Mar-2026	Average
1	SMS LRF	85	66.4	69.4	71.4	74.2	71.8	72.3	70.92
2	SMS EAF		68.7	66.5	69.2	71.6	72.6	73.6	70.37
3	SMS CCM		64.8	69.2	74.6	69.2	68.9	73.7	70.07
4	IOC Terax Crusher Area		71.4	71.5	73.2	71.4	78.6	78.3	74.07
5	IOC Screen Building		72.8	70.6	68.4	66.2	81.4	68.4	71.30
6	CHP 400 TPH Crusher		76.9	75.4	71.2	68.7	72.6	61.8	71.10
7	CHP 220 TPH Crusher		74.2	78.8	68.9	71.4	74.8	67.5	72.60
8	FAP 1x18 MVA Furnace GF		67.4	69.9	70.2	72.2	79.4	72.8	71.98
9	FAP 1x18 MVA Compressor Room		69.7	71.5	73.8	74.8	82.6	62.7	72.52
10	FAP 2x9 MVA Furnace GF		71.4	73.2	76.4	70.6	76.4	62.4	71.73
11	FAP 2x9 MVA Compressor Room		78.9	79.8	78.3	71.8	81.2	70.2	76.70
12	Briquetting Mixture Machine		76.6	81.4	77.4	76.4	73.4	78.6	77.30
13	Briquetting Drier		72.1	79.2	74.6	72.3	79.2	72.1	74.92
14	DRI Kiln I		67.4	71.6	70.9	76.7	70.6	64.9	70.35
15	DRI Kiln II		69.8	68.4	67.4	74.8	81.8	62.1	70.72
16	DRI Bagging Area		64.8	67.2	63.7	65.2	69.4	69.5	66.63
17	DRI Cooler Discharge Area		65.8	68.6	67.4	71.2	74.2	72.6	69.97
18	DG Set Power Plant		74.2	71.3	74.2	79.6	79.4	66.8	74.25
19	CFBC Boiler		79.2	77.8	80.3	81.6	84.2	71.5	79.10
20	AFBC Boiler		80.8	78.4	79.2	80.2	81.8	68.4	78.13
21	WHRB I Boiler		77.4	81.6	80.9	78.4	79.4	67.8	77.58
22	WHRB II Boiler		78.8	83.6	77.8	79.6	78.6	69.2	77.93
23	TG Set		72.3	76.1	69.4	67.2	72.6	68.8	71.07
24	Air Compressor		77.5	78.5	77.1	78.6	78.3	73.1	77.18
25	Rolling Mill Area		68.4	66.7	67.2	65.8	74.1	72.1	69.05



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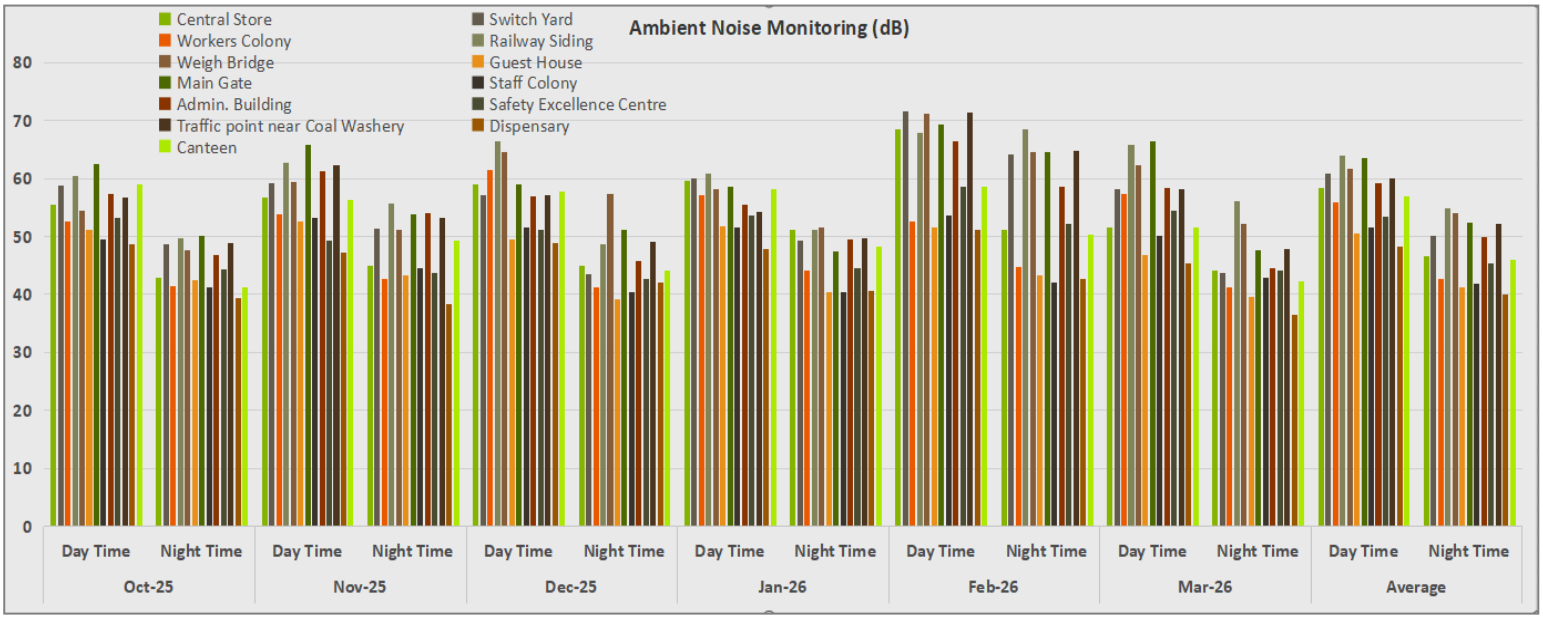
5. Ambient Noise Monitoring (dB)

Sl. No	Sampling Location	Oct-25		Nov-25		Dec-25		Jan-26		Feb-26		Mar-26		Average	
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
1	Central Store	55.4	42.8	56.8	45	58.9	44.9	59.6	51.2	68.4	51.2	51.6	44.2	58.4	46.55
2	Switch Yard	58.8	48.6	59.2	51.4	57.2	43.6	60.1	49.2	71.6	64.2	58.2	43.8	60.8	50.13
3	Workers Colony	52.6	41.4	53.8	42.6	61.4	41.2	57.2	44.2	52.6	44.8	57.4	41.3	55.8	42.58
4	Railway Siding	60.4	49.8	62.8	55.6	66.4	48.6	60.8	51.2	67.9	68.4	65.8	56.1	64.2	54.95
5	Weigh Bridge	54.4	47.6	59.4	51.2	64.6	57.4	58.2	51.6	71.2	64.6	62.2	52.2	61.6	54.10
6	Guest House	51.2	42.4	52.6	43.2	49.4	39.1	51.8	40.4	51.5	43.2	46.8	39.5	50.5	41.30
7	Main Gate	62.6	50.1	65.8	53.8	58.9	51.2	58.6	47.4	69.4	64.5	66.5	47.7	63.6	52.45
8	Staff Colony	49.4	41.2	53.2	44.5	51.6	40.4	51.6	40.4	53.6	42.1	50.2	42.9	51.6	41.92
9	Admin. Building	57.4	46.8	61.2	54.1	56.9	45.8	55.4	49.6	66.4	58.6	58.4	44.6	59.2	49.92
10	Safety Excellence Centre	53.2	44.4	49.2	43.7	51.2	42.6	53.7	44.6	58.5	52.2	54.5	44.1	53.3	45.27
11	Traffic point near Coal Washery	56.8	48.9	62.4	53.2	57.2	49.1	54.2	49.7	71.4	64.8	58.2	47.9	60.0	52.27
12	Dispensary	48.7	39.4	47.2	38.4	48.9	42.1	47.8	40.7	51.2	42.6	45.4	36.5	48.2	39.95
13	Canteen	58.9	41.2	56.4	49.2	57.8	44.2	58.2	48.3	58.6	50.4	51.6	42.2	56.9	45.92



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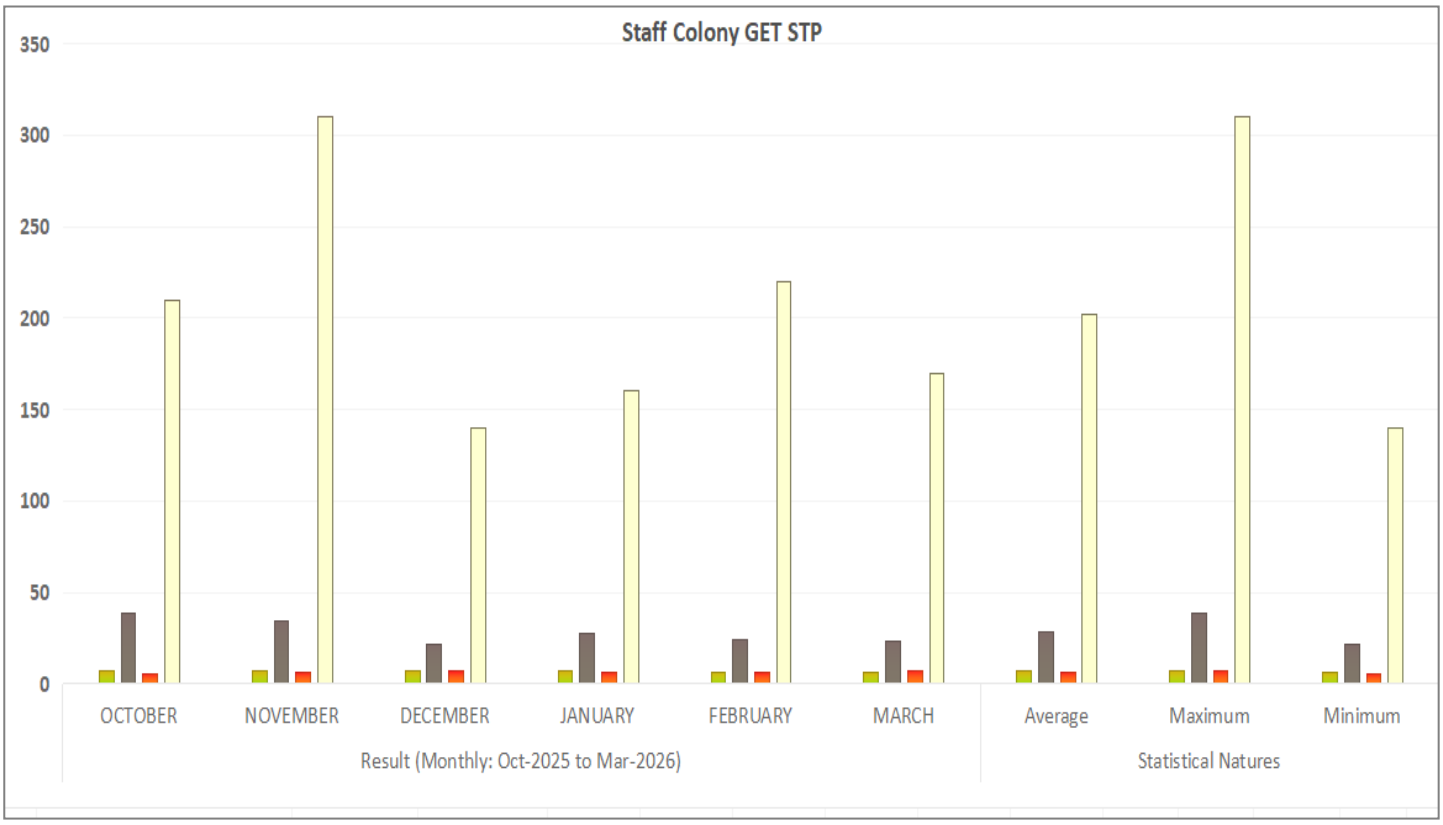
6. Staff Colony GET STP Monitoring

SL. No.	Test Parameters	Unit	STP Outlet standard as per CTO	Result (Monthly: Oct-2025 to Mar-2026)						Statistical-Natures		
				Oct 2025	Nov 2025	Dec 2025	Jan 2026	Feb 2026	Mar 2026	Average	Maximum	Minimum
1	pH value at 26°C	---	6.5-9.0	7.18	7.24	7.22	6.95	6.77	6.51	6.98	7.24	6.51
2	Total Suspended Solids (as TSS)	mg/l	<100	38.6	34.1	22	28	24	23.56	28.38	38.60	22
3	Biochemical Oxygen Demand (as BOD)	mg/l	<30	5.6	6.4	7	6.6	6.30	7.52	6.57	7.52	5.60
4	Fecal Coliform	MPN/ 100ml	<1000	210	310	140	160	220	170	201.67	310	140



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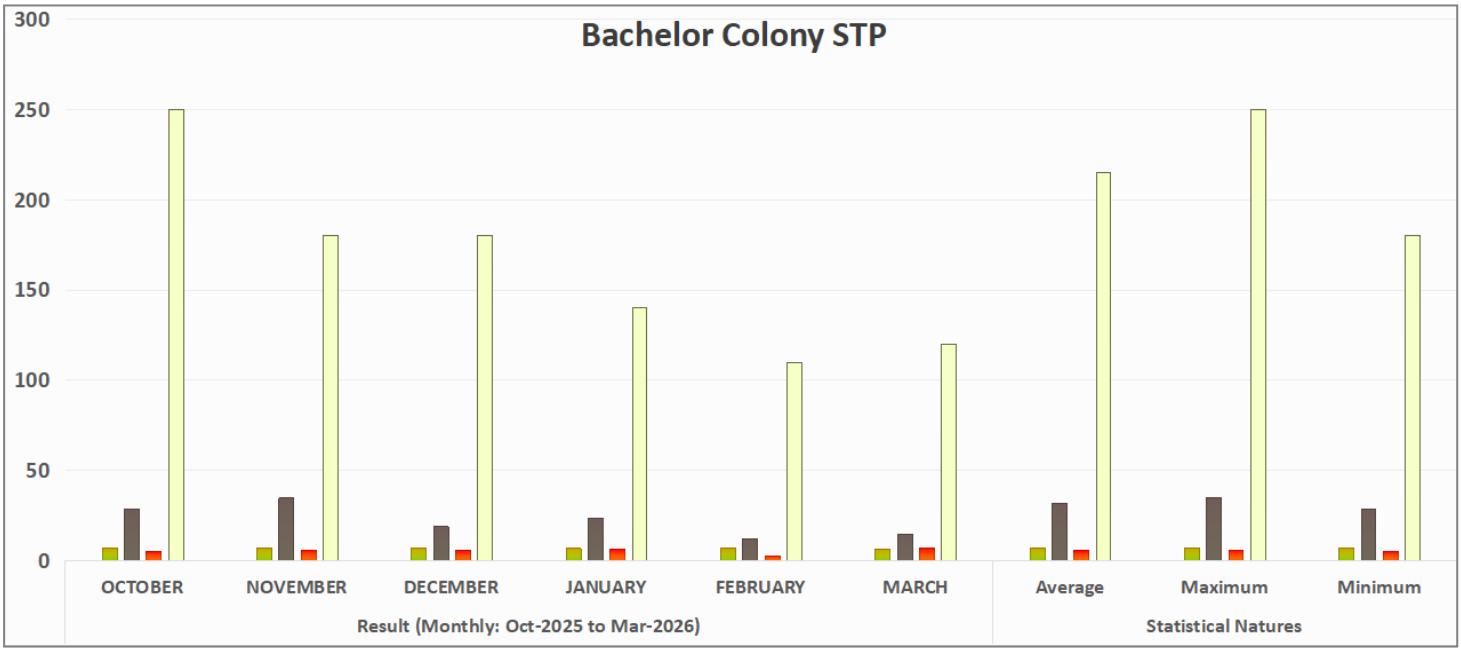
7. Bachelor Colony STP Monitoring

SL. No.	Test Parameters	Unit	STP Outlet standard as per CTO	Result (Monthly: Oct-2025 to Mar-2026)						Statistical-Natures		
				Oct 2025	Nov 2025	Dec 2025	Jan 2026	Feb 2026	Mar 2026	Average	Maximum	Minimum
1	pH value at 26°C	---	6.5-9.0	7.18	7.02	7.01	6.84	6.68	6.34	7.10	7.18	7.02
2	Total Suspended Solids (as TSS)	mg/l	<100	28.4	34.6	18.8	23.2	12	14.64	31.50	34.60	28.40
3	Biochemical Oxygen Demand (as BOD)	mg/l	<30	5	5.8	5.6	6.2	2.6	7.1	5.40	5.80	5.00
4	Fecal Coliform	MPN/ 100ml	<1000	250	180	180	140	110	120	215	250	180



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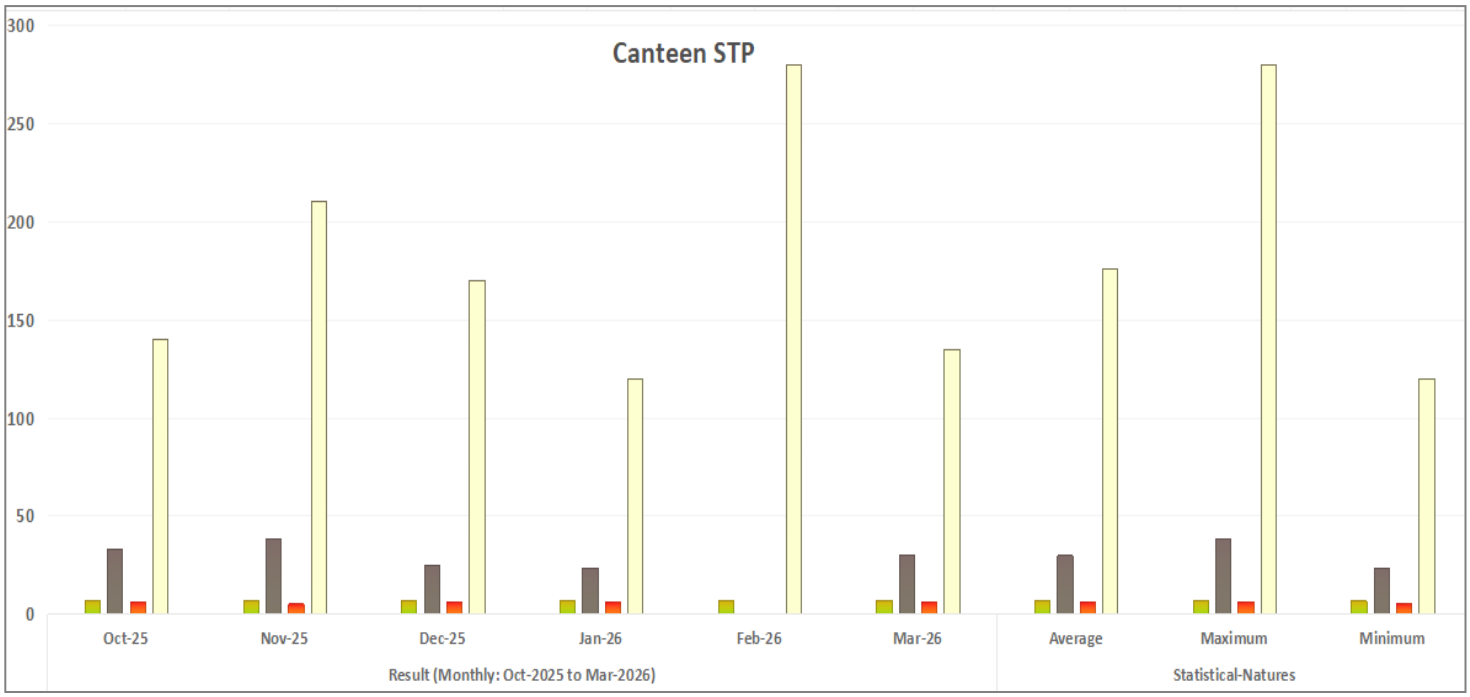
8. Canteen STP Monitoring

SL. No.	Test Parameters	Unit	STP Outlet standard as per CTO	Result (Monthly: Oct-2025 to Mar-2026)						Statistical-Natures		
				Oct 2025	Nov 2025	Dec 2025	Jan 2026	Feb 2026	Mar 2026	Average	Maximum	Minimum
1	pH value at 26°C	---	6.5-9.0	7.23	6.98	6.98	7.14	6.78	6.84	6.99	7.23	6.78
2	Total Suspended Solids (as TSS)	mg/l	<100	32.8	38.4	24.8	23.2	BDL (DL: 10,0)	30.21	29.88	38.40	23.20
3	Biochemical Oxygen Demand (as BOD)	mg/l	<30	6.4	5.2	6.2	6	BDL (DL: 2.0)	6.14	5.99	6.40	5.20
4	Fecal Coliform	MPN/ 100ml	<1000	140	210	170	120	280	135	175.83	280	120



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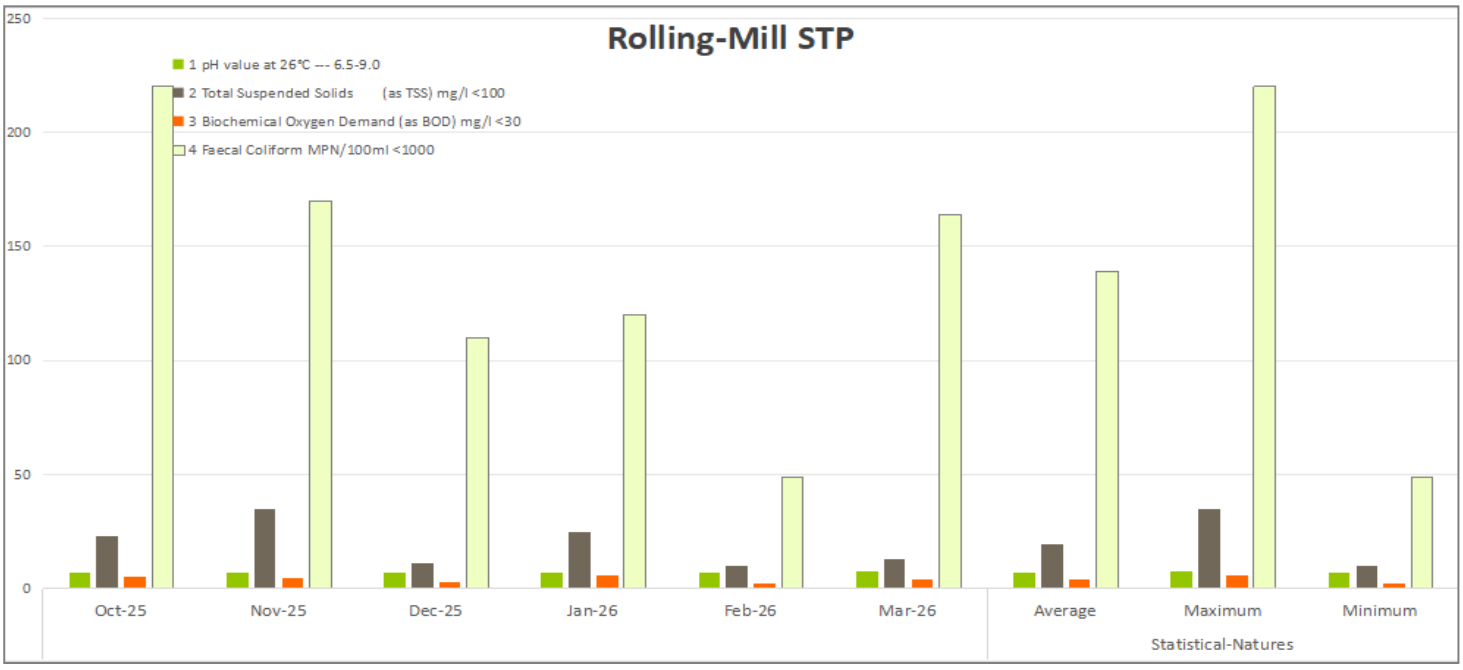
9. Rolling-Mill STP Monitoring

SL. No.	Test Parameters	Unit	STP Outlet standard as per CTO	Result (Monthly: Oct-2025 to Mar-2026)						Statistical-Natures		
				Oct 2025	Nov 2025	Dec 2025	Jan 2026	Feb 2026	Mar 2026	Average	Maximum	Minimum
1	pH value at 26°C	---	6.5-9.0	7.21	7.12	6.84	7.01	6.86	7.34	7.06	7.34	6.84
2	Total Suspended Solids (as TSS)	mg/l	<100	22.8	34.7	11.2	24.8	10.00	13.25	19.46	34.70	10.00
3	Biochemical Oxygen Demand (as BOD)	mg/l	<30	5.4	4.6	2.6	5.8	2.30	4.10	4.13	5.80	2.30
4	Fecal Coliform	MPN/ 100ml	<1000	220	170	110	120	49	164	138.83	220	49



Reviewed By:
Signature :
Name :
Designation :

Authorized Signatory:
Signature :
Name :
Designation

National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

MITRA S. K. PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

BUILDING NO. P-48, UDAYAN INDUSTRIAL ESTATE, 3, PAGLADANGA ROAD,, KOLKATA, WEST BENGAL, INDIA

in the field of

TESTING

Certificate Number: TC-16686

Issue Date: 01/09/2025 **Valid Until:** 31/08/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: MITRA S. K. PRIVATE LIMITED

Signed for and on behalf of NABL

Anuja Anand
Director

N. Venkateswaran
Chief Executive Officer

Mitra S. K. Private Limited

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TEST REPORT

Name & Address of the Customer :
AARTI STEELS LIMITED
Ghantikhal , Athagarh , Cuttack

Report No. : BBS/623
Date : 15.11.2025
Sample No. : MSKGL/ED/2025-26/11/0815
Sample Description : Fly-Ash
Sampling Location : Power-Plant
Date of sampling : 10.11.2025

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	Permissible Limit HW (Mgt & H, Transboundary Movement) Rules 2016, Schedule II	Result
1	Arsenic as As (TCLP)	mg/l	TPM/MSK/INST./164: 2024	5.0	0.2
2	Barium as Ba (TCLP)	mg/l	TPM/MSK/INST./164: 2024	100	28
3	Cadmium as Cd (TCLP)	mg/l	TPM/MSK/INST./164: 2024	1.0	BDL(DL:0.1)
4	Chromium as Cr (TCLP)	mg/l	TPM/MSK/INST./164: 2024	5.0	2.1
5	Copper as Cu (TCLP)	mg/l	TPM/MSK/INST./164: 2024	No EPA TCLP limit	BDL(DL:0.1)
6	Lead as Pb (TCLP)	mg/l	TPM/MSK/INST./164: 2024	5.0	0.42
7	Mercury as Hg (TCLP)	mg/l	TPM/MSK/INST./164: 2024	0.2	BDL(DL:0.01)
8	Nickel as Ni (TCLP)	mg/l	TPM/MSK/INST./164: 2024	No TCLP limit	BDL(DL:0.05)
9	Iron as Fe (TCLP)	mg/l	TPM/MSK/INST./164: 2024	1.0	0.55
10	Manganese as Mn (TCLP)	mg/l	TPM/MSK/INST./164: 2024	No TCLP limit	BDL(DL:0.1)
11	Zinc as Zn (TCLP)	mg/l	TPM/MSK/INST./164: 2024	No EPA TCLP limit	BDL(DL:0.05)

Report Prepared By :
Signature : S.K. Mohanty
Name : Mr. S.K. Mohanty
Designation : Office Assistant

Report Verified By :
Signature : A.K. Rath.
Name : Mr. A.K. Rath
Designation : Operation-in-charge

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(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: MITRA S. K. PRIVATE LIMITED

Signed for and on behalf of NABL

Anuja Anand
Director

N. Venkateswaran
Chief Executive Officer

Mitra S. K. Private Limited

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Tel. : 91 7044036120. **Fax** : 91 33 23230078.
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MSK TESTING • INSPECTION

TEST REPORT

Name & Address of the Customer :
AARTI STEELS LIMITED
Ghantikhal , Athagarh , Cuttack

Report No. : BBS/600
Date : 06.11.2025
Sample No. : MSKGL/ED/2025-26/10/01029
Sample Description : Slag
Sampling Location : Jigging Plant Before
Date of sampling : 15.10.2025

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	Permissible Limit HW (Mgt & H, Transboundary Movement) Rules 2016, Schedule II	Result
1	Arsenic as As (TCLP)	mg/l	TPM/MSK/INST./164: 2024	5.0	BDL(DL:0.02)
2	Barium as Ba (TCLP)	mg/l	TPM/MSK/INST./164: 2024	100	1.58
3	Cadmium as Cd (TCLP)	mg/l	TPM/MSK/INST./164: 2024	1.0	BDL(DL:0.1)
4	Chromium as Cr (TCLP)	mg/l	TPM/MSK/INST./164: 2024	5.0	6.76
5	Copper as Cu (TCLP)	mg/l	TPM/MSK/INST./164: 2024	25.0	BDL(DL:0.1)
6	Lead as Pb (TCLP)	mg/l	TPM/MSK/INST./164: 2024	5.0	BDL(DL:0.1)
7	Mercury as Hg (TCLP)	mg/l	TPM/MSK/INST./164: 2024	0.2	BDL(DL:0.05)
8	Nickel as Ni (TCLP)	mg/l	TPM/MSK/INST./164: 2024	20	0.68
9	Selenium as Se (TCLP)	mg/l	TPM/MSK/INST./164: 2024	1.0	0.02
10	Silver as Ag (TCLP)	mg/l	TPM/MSK/INST./164: 2024	5.0	BDL(DL:0.1)
11	Zinc as Zn (TCLP)	mg/l	TPM/MSK/INST./164: 2024	250	0.49

Report Prepared By :
Signature : S.K Mohanty
Name : Mr. S.K. Mohanty
Designation : Office Assistant

Report Verified By :
Signature : A.K. Rath
Name : Mr. A.K. Rath
Designation : Operation-in-charge

Mitra S. K. Private Limited

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MSK TESTING • INSPECTION

TEST REPORT

Name & Address of the Customer :
AARTI STEELS LIMITED
Ghantikhal , Athagarh , Cuttack

Report No. : BBS/601
Date : 06.11.2025
Sample No. : MSKGL/ED/2025-26/10/01030
Sample Description : Slag
Sampling Location : Jigging Plant After
Date of sampling : 15.10.2025

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	Permissible Limit HW (Mgt & H, Transboundary Movement) Rules 2016, Schedule II	Result
1	Arsenic as As (TCLP)	mg/l	TPM/MSK/INST./164: 2024	5.0	BDL(DL:0.02)
2	Barium as Ba (TCLP)	mg/l	TPM/MSK/INST./164: 2024	100	1.23
3	Cadmium as Cd (TCLP)	mg/l	TPM/MSK/INST./164: 2024	1.0	BDL(DL:0.1)
4	Chromium as Cr (TCLP)	mg/l	TPM/MSK/INST./164: 2024	5.0	2.59
5	Copper as Cu (TCLP)	mg/l	TPM/MSK/INST./164: 2024	25.0	BDL(DL:0.1)
6	Lead as Pb (TCLP)	mg/l	TPM/MSK/INST./164: 2024	5.0	BDL(DL:0.1)
7	Mercury as Hg (TCLP)	mg/l	TPM/MSK/INST./164: 2024	0.2	BDL(DL:0.05)
8	Nickel as Ni (TCLP)	mg/l	TPM/MSK/INST./164: 2024	20	0.52
9	Selenium as Se (TCLP)	mg/l	TPM/MSK/INST./164: 2024	1.0	0.03
10	Silver as Ag (TCLP)	mg/l	TPM/MSK/INST./164: 2024	5.0	BDL(DL:0.1)
11	Zinc as Zn (TCLP)	mg/l	TPM/MSK/INST./164: 2024	250	0.70

Report Prepared By :
Signature : S. K. Mohanty
Name : Mr. S.K. Mohanty
Designation : Office Assistant

Report Verified By :
Signature : A. K. Rath
Name : Mr. A.K. Rath
Designation : Operation-in-charge

VIBRANT TECHNO LAB PVT. LTD.

ISO 9001, 14001 & 45001 Certified Company
EPA Recognized Laboratory | NABET Accredited EIA Consultant Organisation

TEST REPORT

VIBRANT

Sample Number:	VTL/SL/01		
Name & Address of the Project:	M/s Aarti Steels Limited. Ghantikhal, Athagarh, Cuttack	Report No.:	VTL/SL/2602070004
		Format No.:	7.8 F-01
Sample Description:	FAP Slag For TMC Test	Party Reference No.:	NIL
Sample Location:	Ferro Alloy Plant	Report Date:	21/02/2026
Sample Collected by:	VTL Team	Period Of Analysis:	07-21/02/2026
Preservation:	Suitable preservation	Receipt Date:	07/02/2026
		Date Of Sampling:	05/02/2026
		Sample Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

Sr	Parameter	Unit	Test Method	Results
1.	Arsenic as As	mg/Kg	USEPA 3050-B	*BLQ(**LOQ-0.1)
2.	Silver as Ag	mg/Kg	USEPA 3050-B	*BLQ(**LOQ-0.1)
3.	Cadmium as Cd	mg/Kg	USEPA 3050-B	*BLQ(**LOQ-0.2)
4.	Chromium as Cr	mg/Kg	USEPA 3050-B	2.50
5.	Copper as Cu	mg/Kg	USEPA 3050-B	*BLQ(**LOQ0.2)
6.	Total Lead as Pb	mg/Kg	USEPA 3050-B	*BLQ(**LOQ-0.2)
7.	Mercury as Hg	mg/Kg	USEPA 3050-B	*BLQ(**LOQ0.1)
8.	Nickel as Ni	mg/Kg	USEPA 3050-B	0.50
9.	Zinc as Zn	mg/Kg	USEPA 3050-B	0.95
10.	Cobalt as Co	mg/Kg	USEPA 3050-B	14
11.	Copper as Cu	mg/Kg	USEPA 3050-B	3.3
12.	Manganese as Mn	mg/Kg	USEPA 3050-B	108.4
13.	Antimony as Sb	mg/Kg	USEPA 3050-B	*BLQ(**LOQ-0.1)

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report

Checked By

VIBRANT TECHNO LAB PRIVATE LTD. JAIPUR

RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:
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Dust Suppression System

Covered Truck:

Water Tanker:

Water Sprinkling System & High Pressure Rain Guns

Wheel washing system

WHEEL WASHING SYSTEM

Heavy vehicles while carrying the materials to the stock yards, the tyres get contaminated with toxic contaminants present in the yard. The spillage and contaminated leachate contained in tyres should not go out with the vehicle tyres. Therefore, wheel washing is required at the exit point of the gates. For that we have developed wheel washing system where the tyres can get cleaned and the same water is then treated in the Effluent Treatment Plant for further reuse.

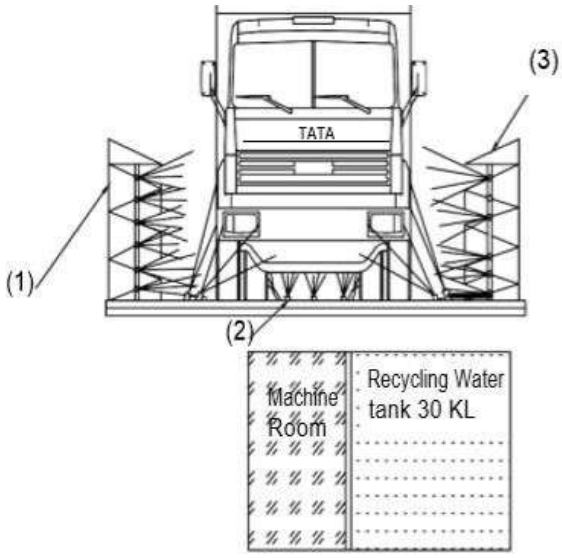
Applications:

- Heavy Vehicles from MSW dump yards
- Hopper vehicles, trucks, earthmovers from mining areas

Facilities & Performance: (HIGH PRESSURE AND LOW VOLUME)

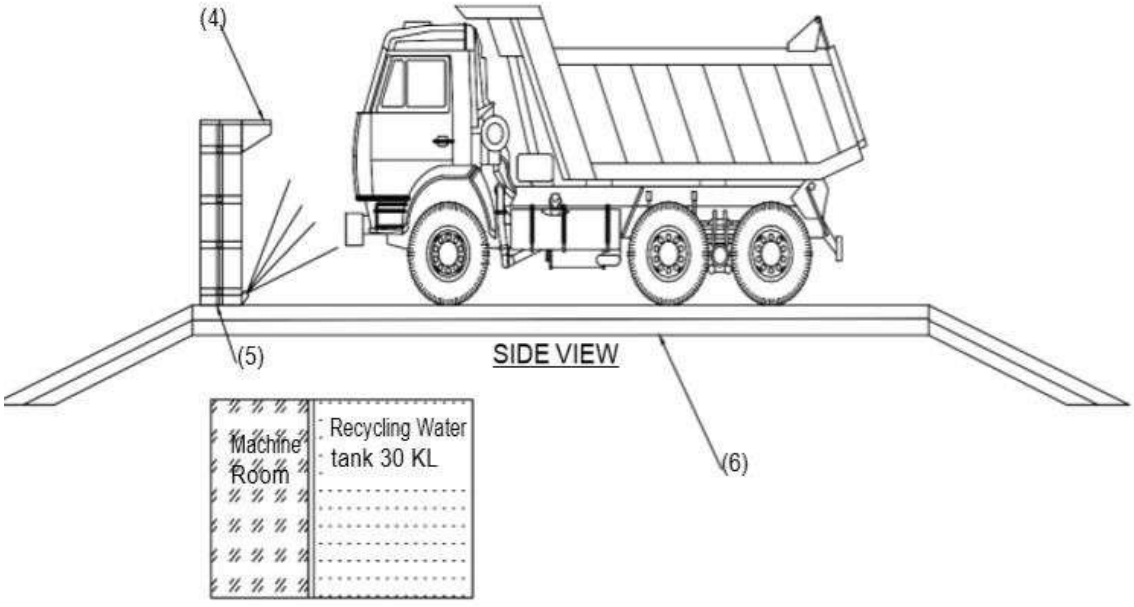
- 300+ Trucks can be washed in a day
- Deep cleansing of wheels in minutes with high pressurized pump through nozzle spray
- Less consumption of water and recyclable for reuse

Sl. No.	Particulars	Details	Remarks
1	Water Consumption	170 liter per minute / 10,200 liters per hour	-
2	Pump Pressure	100 bar / 1450 psi	High Pressure Unit
3	Washing Time	60-90 seconds / Tipper	-
4	Water Requirement per Washing	85-100 Liters Approx.	-
5	Water requirement for 300 tippers / day	25,000 Liters	-
6	Motor	1. 50 Hp / 37 Kw 2. Motor RPM: 1000	Low RPM Motor
7	Suggested Water Storage Tank	25,000 liters	-



FRONT VIEW

Sl No.	ITEM DESCRIPTION	QTY.
1.	NOZZLE POST FOR SIDE WASH (left side)	6
2.	NOZZLE FLOOR WASH	5
3.	NOZZLE POST FOR SIDE WASH (right side)	6
4.	SENSOR	1
5.	PIT	2
6.	GROUND LEVEL	N/A



SIDE VIEW

(Wheel Washing System)

Annexure 8 - Water Balance

BREAK UP OF QUANTITIES OF MAKE UP WATER REQUIREMENT IN DIFFERENT HEADS AT FULL OPERATING CAPACITY

S.N.	UNIT	CONSUMPTION
1	Manufacturing Process	89 m³/hr
2	As Wash water	43 m³/hr
3	As cooling water	560 m³/hr
4	Domestic	2 m³/hr
5	Agriculture	Nil
6	Other Use (Green belt, Fire Service, Other)	6 m³/hr
	Total	700 m³/hr

M/s. Aarti Steels Limited
At-Ghantikhal
P.O. [illegible]
Via-Athagarh, Dist-Cuttack

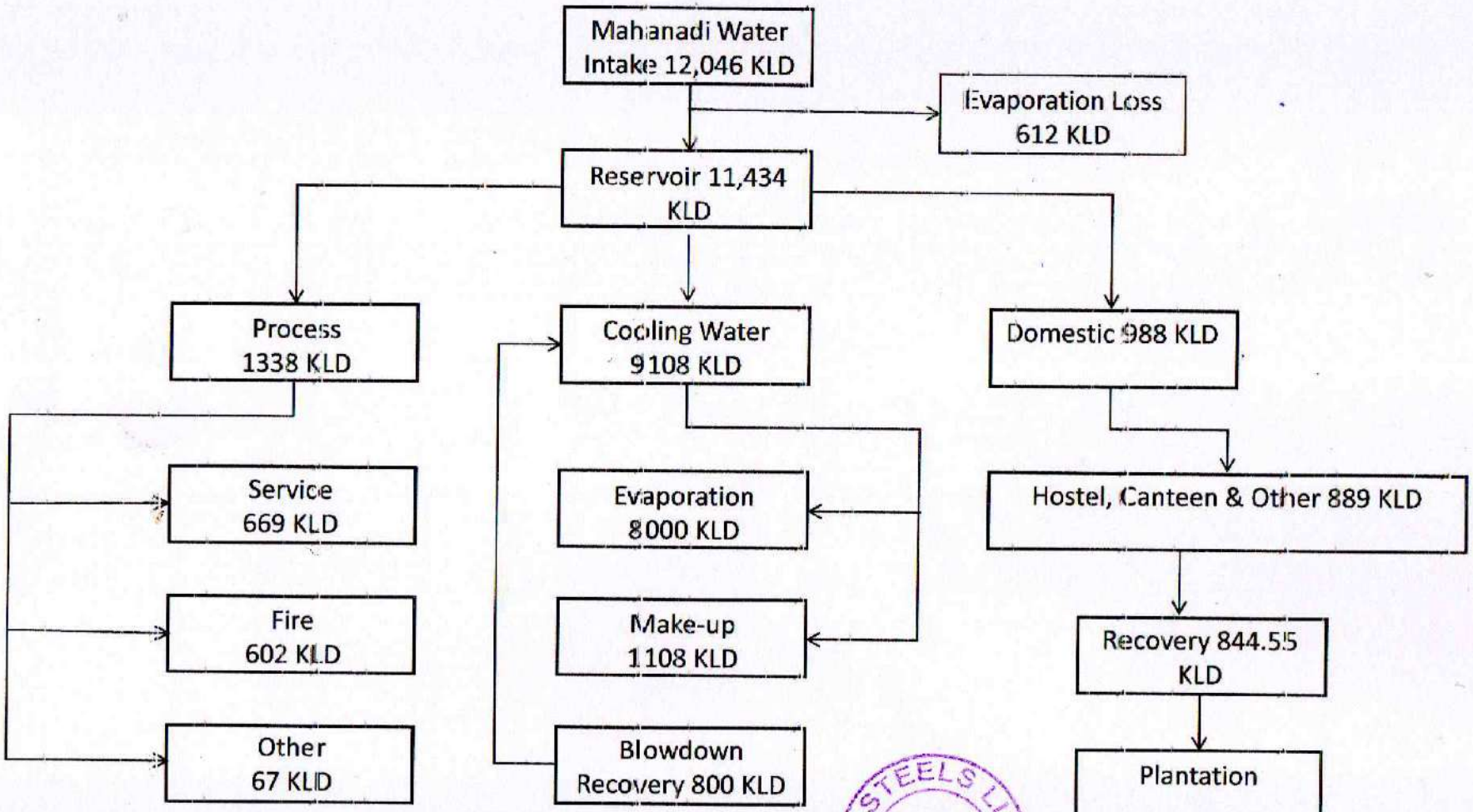
M/s. Aarti Steels Limited
P.O. [illegible]
Via-Athagarh
Cuttack

AARTI STEELS LIMITED GHANTIKHAL CUTTACK

AARTI STEELS LIMITED GHANTIKHAL CUTTACK

WATER MASS BALANCING

Aarti Steels Limited, Ghantikhal, Cuttack



AARTI STEELS LIMITED GHANTIKHAL CUTTACK

Sewage Treatment Plant (STP) O&M

1.0 Purpose:

To define standardized procedures for operation, monitoring, and maintenance of the STP to ensure consistent treatment performance and compliance with norms of Central Pollution Control Board.

2.0 Scope:

This SOP applies to the following treatment units:	
1. Inlet Collection System	**6.** Chlorination Unit
2. Equalisation Tank	**7.** MGF (Multigrade Filter)
3. Aeration Tank with MBBR Media	**8.** ACF (Activated Carbon Filter)
4. Tube Settler	**9.** Sludge Handling System (Filter Press & Drying Bed)
5. Filter Feed System	

3.0 Roles & Responsibilities:

Role	Responsibility
STP Operator	Operation, monitoring, logbook
Shift In-Charge	Supervision, corrective actions
Environment Officer	Compliance & reporting
Maintenance Team	Equipment Inspection & Repair

4.0 Process Description:

4.1 Main Treatment Line:

Inlet → Equalization Tank → Aeration + MBBR → Tube Settling → Filter Feed Tank → Chlorination → MGF → ACF → Final Treated Water Tank → Reuse(Garden/ Dust Suppression System)

4.2 Sludge Line:

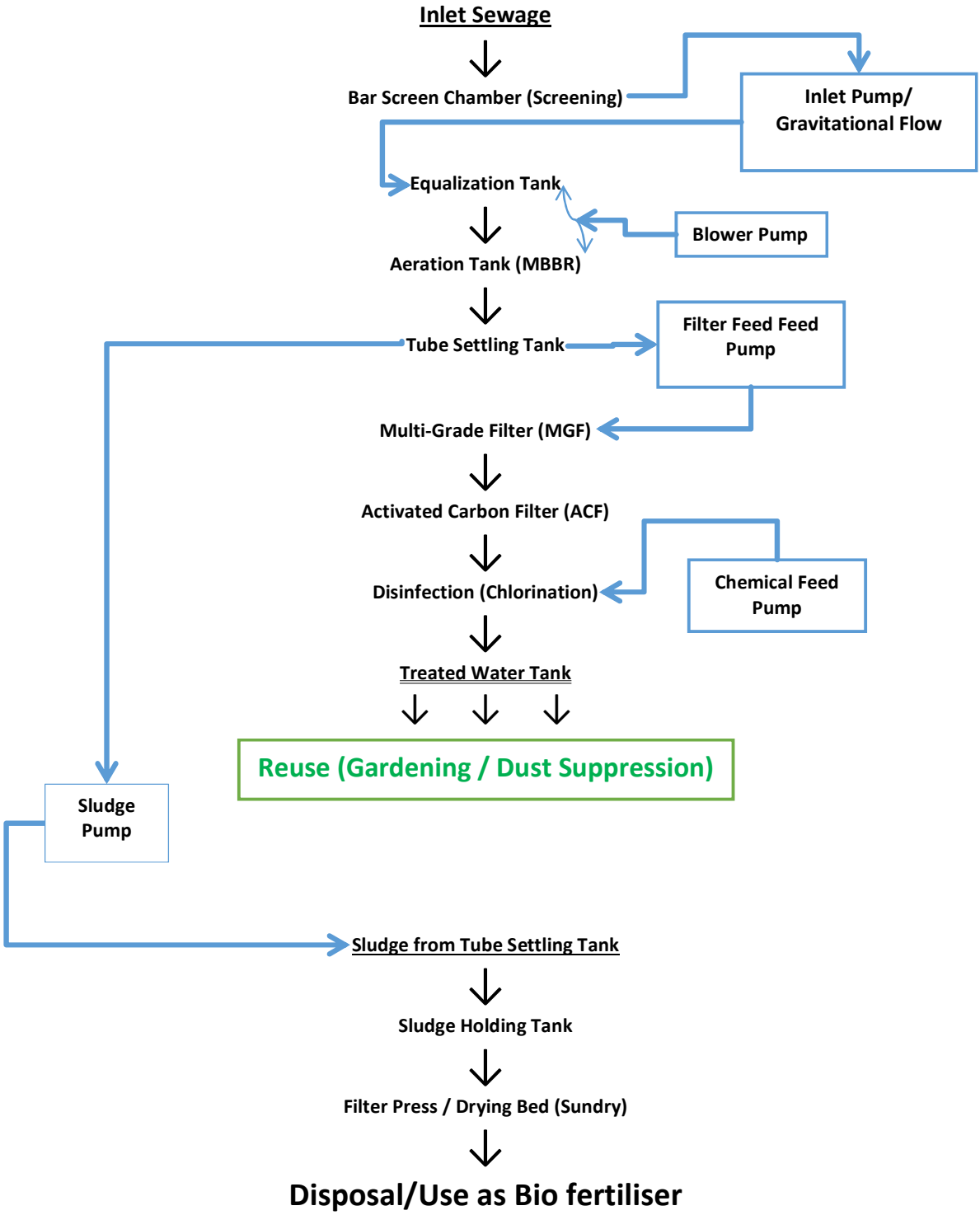
Tube Settle Sludge → Sludge Pump → Filter Press → Sun Drying → Disposal

5.0 Operating Procedure

5.1 Start-Up Procedure

- Ensure power supply and panel readiness.
- Check valve alignment for both water and sludge lines.
- Start blower and ensure aeration in tank.
- Start influent pump gradually.
- Maintain: pH: 6.5–8.5; DO: 2–4 mg/L
- Ensure MBBR media movement is uniform.

STP PROCESS FLOW DIAGRAM



P.F.D.: ASL-2026-S2520-002

5.2 Normal Operation

a) Equalization Tank ➢ Maintain proper mixing using blower/agitator ➢ Avoid septic conditions ➢ Ensure steady flow to aeration	**b) Aeration + MBBR Tank** ➢ Maintain DO: **2–4 mg/L** ➢ Ensure uniform movement of MBBR media ➢ Avoid media choking or dead zones ➢ Control foam formation
c) Tube Settler ➢ Maintain **uniform flow distribution** ➢ Remove sludge periodically ➢ Check for: Tube clogging, Sludge accumulation	**d) Filter Feed Tank** ➢ Maintain continuous and steady feed to filters ➢ Avoid pump cavitation
e) Chlorination Unit ➢ Dose chlorine before filtration ➢ Maintain residual chlorine ~0.5 mg/L	**f) MGF (Multigrade Filter)** ➢ Remove suspended solids ➢ Monitor pressure drop ➢ Backwash as required
g) ACF (Activated Carbon Filter) ➢ Remove color, odor, organics ➢ Backwash periodically ➢ Replace carbon as per condition	**h) Final Treated Water** ➢ Store in tank ➢ Reuse for: Dust suppression, Gardening

5.3 Sludge Handling: Sludge Line Operation

- Collect sludge from tube settler
- Pump to filter press (before that Check valve alignment for sludge lines) dewater
- Transfer to drying bed & Dispose as per guidelines

5.4 Monitoring & Control

Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO
pH value at 26°C	---	APHA(23rd Edtn.)4500-H-B	6.5-9.0
Total Suspended Solids (as TSS)	mg/l	APHA(23rd Edtn.)2540D	<100
Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23rd Edtn.)5210B	<30
Fecal Coliform	MPN/100ml	APHA(23rd Edtn.)9221E	<1000

6.0 Alarm & Upset Handling

Condition	Action
High Flow	Divert to EQ tank
Low DO	Start standby blower
Foam	Water spray / antifoam
High turbidity	Reduce load, clean tube settler
Tube choking	Flush/clean lamella
Chlorine low	Increase dosing
Filter choking	Backwash MGF/ACF

7.0 Maintenance Schedule

Daily:- • Screen cleaning (4-6Times) • Pump & blower inspection(3Times) • Check chlorine dosing	**Weekly:-** • Backwash MGF & ACF (Daily / Weekly 2-3Times as per requirement) • Inspect tube settler (Daily If flow is high) • Check sludge line
Monthly:- • Clean lamella tubes • Inspect pipelines • Calibrate instruments	**Quarterly:-** • Service blowers & pumps • Replace filter media (if required)

8.0 Lubrication Schedule

Equipment	Activity	Frequency
Pumps	Greasing	10–17 days
Blowers	Oil check/change	Weekly
Filter Press	Greasing/Oiling	2-4 Days

9.0 Safety Requirements ➢ Use PPE at all times ➢ Handle chlorine safely(MSDS) ➢ Ensure electrical safety ➢ Follow confined space entry procedures	**10.0 Documentation** Maintain: ➢ Daily checklist ➢ Shift logbook ➢ Maintenance log ➢ Lab reports
11.0 Shutdown Procedure ➢ Stop effluent flow With continuous Monitoring ➢ Aeration Continuously Till the tank is Empty ➢ Stop pumps (Blower Pump Run till empty tank) ➢ Clean sludge and filters	**12.0 Emergency Handling** ➢ Power failure → Contact E&I dept. ➢ Shock load → Divert to EQ tank ➢ Tube blockage → Clean immediately ➢ Overflow → Divert to standby

STP Photographs with Location

STP 1 - Staff Colony – 200 KLD

STP 2 - Bachelor Colony – 200 KLD

STP 3 – Rolling Mill – 10 KLD

STP 4 – Canteen – 10 KLD

National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

MITRA S. K. PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

BUILDING NO. P-48, UDAYAN INDUSTRIAL ESTATE, 3, PAGLADANGA ROAD,, KOLKATA, WEST BENGAL, INDIA

in the field of

TESTING

Certificate Number: TC-16686

Issue Date: 01/09/2025 **Valid Until:** 31/08/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: MITRA S. K. PRIVATE LIMITED

Signed for and on behalf of NABL

Anuja Anand
Director

N. Venkateswaran
Chief Executive Officer

Mitra S. K. Private Limited

Building No. P-48,
Udayan Industrial Estate,3,
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Kolkata 700015.
Tel. : 91 7044036120. **Fax** : 91 33 23230078.
Email : udayanlab@mitrask.com

MSK TESTING • INSPECTION

TEST REPORT

Name & Address of the Customer :
AARTI STEELS LIMITED
Ghantikhal , Athagarh , Cuttack

Report No. : BBS/618
Date : 15.11.2025
Sample No. : MSKGL/FD/2025-26/10/0910
Sample Description : Ground Water
Sampling Location : Borewell at Dwarabatipur
Date of Sampling : 23.10.2025

BACTERIOLOGICAL ANALYSIS RESULT AS PER IS: 10500 – 2012

Sl. No	Test Parameters	Limit	Test Method / Specification	Result
1.	E. Coli/100ml	Not Detectable	IS: 15185 : 2016	Not Detected
2.	Total Coliform Organism/100ml	Not Detectable	IS: 15185 : 2016	Not Detected

CHEMICAL ANALYSIS RESULT AS PER IS: 10500 – 2012

Sl. No.	Test Parameter	Requirement (Acceptable Limit)	Permissible limit in the absence of alternate Source	Test Method / Specification	Result
1.	pH (at 26^0 C)	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)-1984 Rffm: 2012	7.11
2.	Odour	Agreeable	Agreeable	IS 3025 (Part 5)-1983 Rffm:2012	Agreeable
3.	Turbidity in (N.T.U)	1	5.0	IS 3025 (Part 10)-1984 Rffm: 2012	2.6
4.	Total Hardness (as $CaCO_3$) in mg/l	200	600	IS 3025 (Part 21)-2013	105
5.	Total Dissolved Solids in mg/l	500	2000	IS 3025 (Part 16)-1984; Rffm:2014	92
6.	Sulphate (as SO_4) in mg/l	200	400	IS 3025 (Part 24)- 1986 Rffm: 2014	12.8
7.	Calcium (as Ca) in mg/l	75	200	IS 3025 (Part 40)- 1991 Rffm: 2014	22.5
8.	Arsenic (as As) in mg/l	0.01	0.05	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
9.	Lead (as Pb) in mg/l	0.01	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
10.	Zinc (as Zn) in mg/l	5	15.0	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
11.	Copper (as Cu) in mg/l	0.05	1.5	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
12.	Mercury (as Hg) in mg/l	0.001	No Relaxation	IS 3025 (Part 48)-1994 Rffm: 2014	BDL(DL:0.01)
13.	Cadmium (as Cd) in mg/l	0.003	No Relaxation	IS 3025 (PART 2) 2004 RA 2014	BDL(DL:0.05)
14.	Mineral Oil in mg/l	0.5	No Relaxation	IS 3025 (Part 39)-1991 Rffm: 2014	BDL(DL:1.0)
15.	Fluoride (as F) in mg/l	1	1.5	IS 3025 (Part 60)- 2008 Rffm: 2013	BDL(DL:0.2)
16.	Colour (Hazen Unit)	5	15.0	3025 (Part 4)-1983; Rffm:2012	BDL(DL:1.0)
17.	Residual free Chlorine in mg/l	0.2	1.0	IS 3025 (Part 26)- 1986 Rffm:2014	BDL(DL:0.1)
18.	Iron (as Fe) in mg/l	1	No Relaxation	IS 3025 (Part 53)-1988 Rffm: 2014	0.21
19.	Chloride (as Cl) in mg/l	250	1000	IS 3025 (Part 32)-1988 Rffm: 2014	7.2
20.	Alkalinity (as $CaCO_3$) in mg/l	200	600	IS 3025 (Part 23)- 1986 Rffm: 2014	60
21.	Aluminium (as Al) in mg/l	0.03	0.2	IS 3025 (Part 2)- 2004 RA: 2014	0.11
22.	Magnesium (as Mg) in mg/l	30	100	IS 3025 (Part 46)-1994 Rffm: 2014	4.29
23.	Boron (as B) in mg/l	0.5	1.0	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.5)
24.	Manganese (as Mn) in mg/l	0.1	0.3	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
25.	Nitrate (as NO_3) in mg/l	45	No Relaxation	IS 3025 (Part 34)-1988 Rffm: 2014	0.88
26.	Phenolic Compounds (as C6H5OH) in mg/l	0.001	0.002	IS 3025 (Part 43)- 1992 Rffmd 2014	BDL(DL:0.001)
27.	Selenium (as Se) in mg/l	0.01	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
28.	Total Chromium (as Cr) in mg/l	0.05	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
29.	Cyanide (as CN) in mg/l	0.05	No Relaxation	IS 3025 (Part 27)- 1986 Rffm: 2014	BDL(DL:0.05)
30.	Anionic Detergents (as MBAS) in mg/l	0.2	1.0	IS 13428(Annex K)- 2005	BDL(DL:0.1)
31.	Polynuclear Aromatic Hydrocarbons (as PAH) in mg/l	0.0001	No Relaxation	APHA (23rd Edtn) 6440C	BDL(DL:0.01)

Report Prepared by: S.K. Mohanty

For Mitra S. K. Private Limited
A.K. Panth.
Authorized Signatory

Mitra S. K. Private Limited

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Udayan Industrial Estate,3,
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Kolkata 700015.
Tel. : 91 7044036120. **Fax** : 91 33 23230078.
Email : udayanlab@mitrask.com

TEST REPORT

Name & Address of the Customer :
AARTI STEELS LIMITED
Ghantikhal , Athagarh , Cuttack

Report No. : BBS/619
Date : 15.11.2025
Sample No. : MSKGL/FD/2025-26/10/0911
Sample Description : Ground Water
Sampling Location : Borewell at Chandrabali Shyampur
Date of Sampling : 23.10.2025

BACTERIOLOGICAL ANALYSIS RESULT AS PER IS: 10500 – 2012

Sl. No	Test Parameters	Limit	Test Method / Specification	Result
1.	E. Coli/100ml	Not Detectable	IS: 15185 : 2016	Not Detected
2.	Total Coliform Organism/100ml	Not Detectable	IS: 15185 : 2016	Not Detected

CHEMICAL ANALYSIS RESULT AS PER IS: 10500 – 2012

Sl. No.	Test Parameter	Requirement (Acceptable Limit)	Permissible limit in the absence of alternate Source	Test Method / Specification	Result
1.	pH (at 26^0 C)	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)-1984 Rffm: 2012	7.51
2.	Odour	Agreeable	Agreeable	IS 3025 (Part 5)-1983 Rffm:2012	Agreeable
3.	Turbidity in (N.T.U)	1	5.0	IS 3025 (Part 10)-1984 Rffm: 2012	2.1
4.	Total Hardness (as $CaCO_3$) in mg/l	200	600	IS 3025 (Part 21)-2013	111
5.	Total Dissolved Solids in mg/l	500	2000	IS 3025 (Part 16)-1984; Rffm:2014	38
6.	Sulphate (as SO_4) in mg/l	200	400	IS 3025 (Part 24)- 1986 Rffm: 2014	16
7.	Calcium (as Ca) in mg/l	75	200	IS 3025 (Part 40)- 1991 Rffm: 2014	25
8.	Arsenic (as As) in mg/l	0.01	0.05	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
9.	Lead (as Pb) in mg/l	0.01	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
10.	Zinc (as Zn) in mg/l	5	15.0	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
11.	Copper (as Cu) in mg/l	0.05	1.5	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
12.	Mercury (as Hg) in mg/l	0.001	No Relaxation	IS 3025 (Part 48)-1994 Rffm: 2014	BDL(DL:0.01)
13.	Cadmium (as Cd) in mg/l	0.003	No Relaxation	IS 3025 (PART 2) 2004 RA 2014	BDL(DL:0.05)
14.	Mineral Oil in mg/l	0.5	No Relaxation	IS 3025 (Part 39)-1991 Rffm: 2014	BDL(DL:1.0)
15.	Fluoride (as F) in mg/l	1	1.5	IS 3025 (Part 60)- 2008 Rffm: 2013	BDL(DL:0.2)
16.	Colour (Hazen Unit)	5	15.0	3025 (Part 4)-1983; Rffm:2012	BDL(DL:1.0)
17.	Residual free Chlorine in mg/l	0.2	1.0	IS 3025 (Part 26)- 1986 Rffm:2014	BDL(DL:0.1)
18.	Iron (as Fe) in mg/l	1	No Relaxation	IS 3025 (Part 53)-1988 Rffm: 2014	0.22
19.	Chloride (as Cl) in mg/l	250	1000	IS 3025 (Part 32)-1988 Rffm: 2014	8.1
20.	Alkalinity (as $CaCO_3$) in mg/l	200	600	IS 3025 (Part 23)- 1986 Rffm: 2014	60
21.	Aluminium (as Al) in mg/l	0.03	0.2	IS 3025 (Part 2)- 2004 RA: 2014	0.07
22.	Magnesium (as Mg) in mg/l	30	100	IS 3025 (Part 46)-1994 Rffm: 2014	4.21
23.	Boron (as B) in mg/l	0.5	1.0	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.5)
24.	Manganese (as Mn) in mg/l	0.1	0.3	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
25.	Nitrate (as NO_3) in mg/l	45	No Relaxation	IS 3025 (Part 34)-1988 Rffm: 2014	0.8
26.	Phenolic Compounds (as C6H5OH) in mg/l	0.001	0.002	IS 3025 (Part 43)- 1992 Rffmd 2014	BDL(DL:0.001)
27.	Selenium (as Se) in mg/l	0.01	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
28.	Total Chromium (as Cr) in mg/l	0.05	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
29.	Cyanide (as CN) in mg/l	0.05	No Relaxation	IS 3025 (Part 27)- 1986 Rffm: 2014	BDL(DL:0.05)
30.	Anionic Detergents (as MBAS) in mg/l	0.2	1.0	IS 13428(Annex K)- 2005	BDL(DL:0.1)
31.	Polynuclear Aromatic Hydrocarbons (as PAH) in mg/l	0.0001	No Relaxation	APHA (23rd Edtn) 6440C	BDL(DL:0.01)

Report Prepared by: B. K. Mohanty

For Mitra S. K. Private Limited
A. K. Rath.
Authorized Signatory

Mitra S. K. Private Limited

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TEST REPORT

Name & Address of the Customer :
AARTI STEELS LIMITED
Ghantikhal , Athagarh , Cuttack

Report No. : BBS/620
Date : 15.11.2025
Sample No. : MSKGL/FD/2025-26/10/00912
Sample Description : Ground Water
Sampling Location : Borewell at Nidhipur
Date of Sampling : 23.10.2025

BACTERIOLOGICAL ANALYSIS RESULT AS PER IS: 10500 – 2012

Sl. No	Test Parameters	Limit	Test Method / Specification	Result
1.	E. Coli/100ml	Not Detectable	IS: 15185 : 2016	Not Detected
2.	Total Coliform Organism/100ml	Not Detectable	IS: 15185 : 2016	Not Detected

CHEMICAL ANALYSIS RESULT AS PER IS: 10500 – 2012

Sl. No.	Test Parameter	Requirement (Acceptable Limit)	Permissible limit in the absence of alternate Source	Test Method / Specification	Result
1.	pH (at 26^0 C)	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)-1984 Rffm: 2012	7.01
2.	Odour	Agreeable	Agreeable	IS 3025 (Part 5)-1983 Rffm:2012	Agreeable
3.	Turbidity in (N.T.U)	1	5.0	IS 3025 (Part 10)-1984 Rffm: 2012	2.2
4.	Total Hardness (as $CaCO_3$) in mg/l	200	600	IS 3025 (Part 21)-2013	78
5.	Total Dissolved Solids in mg/l	500	2000	IS 3025 (Part 16)-1984; Rffm:2014	45
6.	Sulphate (as SO_4) in mg/l	200	400	IS 3025 (Part 24)- 1986 Rffm: 2014	15
7.	Calcium (as Ca) in mg/l	75	200	IS 3025 (Part 40)- 1991 Rffm: 2014	28
8.	Arsenic (as As) in mg/l	0.01	0.05	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
9.	Lead (as Pb) in mg/l	0.01	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
10.	Zinc (as Zn) in mg/l	5	15.0	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
11.	Copper (as Cu) in mg/l	0.05	1.5	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
12.	Mercury (as Hg) in mg/l	0.001	No Relaxation	IS 3025 (Part 48)-1994 Rffm: 2014	BDL(DL:0.01)
13.	Cadmium (as Cd) in mg/l	0.003	No Relaxation	IS 3025 (PART 2) 2004 RA 2014	BDL(DL:0.05)
14.	Mineral Oil in mg/l	0.5	No Relaxation	IS 3025 (Part 39)-1991 Rffm: 2014	BDL(DL:1.0)
15.	Fluoride (as F) in mg/l	1	1.5	IS 3025 (Part 60)- 2008 Rffm: 2013	BDL(DL:0.2)
16.	Colour (Hazen Unit)	5	15.0	3025 (Part 4)-1983; Rffm:2012	BDL(DL:1.0)
17.	Residual free Chlorine in mg/l	0.2	1.0	IS 3025 (Part 26)- 1986 Rffm:2014	BDL(DL:0.1)
18.	Iron (as Fe) in mg/l	1	No Relaxation	IS 3025 (Part 53)-1988 Rffm: 2014	0.25
19.	Chloride (as Cl) in mg/l	250	1000	IS 3025 (Part 32)-1988 Rffm: 2014	9.9
20.	Alkalinity (as $CaCO_3$) in mg/l	200	600	IS 3025 (Part 23)- 1986 Rffm: 2014	64
21.	Aluminium (as Al) in mg/l	0.03	0.2	IS 3025 (Part 2)- 2004 RA: 2014	0.09
22.	Magnesium (as Mg) in mg/l	30	100	IS 3025 (Part 46)-1994 Rffm: 2014	4.42
23.	Boron (as B) in mg/l	0.5	1.0	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.5)
24.	Manganese (as Mn) in mg/l	0.1	0.3	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
25.	Nitrate (as NO_3) in mg/l	45	No Relaxation	IS 3025 (Part 34)-1988 Rffm: 2014	0.86
26.	Phenolic Compounds (as C6H5OH) in mg/l	0.001	0.002	IS 3025 (Part 43)- 1992 Rffmd 2014	BDL(DL:0.001)
27.	Selenium (as Se) in mg/l	0.01	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
28.	Total Chromium (as Cr) in mg/l	0.05	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
29.	Cyanide (as CN) in mg/l	0.05	No Relaxation	IS 3025 (Part 27)- 1986 Rffm: 2014	BDL(DL:0.05)
30.	Anionic Detergents (as MBAS) in mg/l	0.2	1.0	IS 13428(Annex K)- 2005	BDL(DL:0.1)
31.	Polynuclear Aromatic Hydrocarbons (as PAH) in mg/l	0.0001	No Relaxation	APHA (23rd Edtn) 6440C	BDL(DL:0.01)

Report Prepared by: S. K. Mohanty

For Mitra S. K. Private Limited
A. K. Routh.
Authorized Signatory

Mitra S. K. Private Limited

Building No. P-48,
Udayan Industrial Estate,3,
Pagladanga Road
Kolkata 700015.
Tel. : 91 7044036120. Fax : 91 33 23230078.
Email : udayanlab@mitrask.com

TEST REPORT

Name & Address of the Customer :
AARTI STEELS LIMITED
Ghantikhal , Athagarh , Cuttack

Report No. : BBS/621
Date : 15.11.2025
Sample No. : MSKGL/FD/2025-26/10/00913
Sample Description : Ground Water
Sampling Location : Borewell at Ghantikal
Date of Sampling : 23.10.2025

BACTERIOLOGICAL ANALYSIS RESULT AS PER IS: 10500 – 2012

Sl. No	Test Parameters	Limit	Test Method / Specification	Result
1.	E. Coli/100ml	Not Detectable	IS: 15185 : 2016	Not Detected
2.	Total Coliform Organism/100ml	Not Detectable	IS: 15185 : 2016	Not Detected

CHEMICAL ANALYSIS RESULT AS PER IS: 10500 – 2012

Sl. No.	Test Parameter	Requirement (Acceptable Limit)	Permissible limit in the absence of alternate Source	Test Method / Specification	Result
1.	pH (at 26^0 C)	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)-1984 Rffm: 2012	7.10
2.	Odour	Agreeable	Agreeable	IS 3025 (Part 5)-1983 Rffm:2012	Agreeable
3.	Turbidity in (N.T.U)	1	5.0	IS 3025 (Part 10)-1984 Rffm: 2012	2.5
4.	Total Hardness (as $CaCO_3$) in mg/l	200	600	IS 3025 (Part 21)-2013	66
5.	Total Dissolved Solids in mg/l	500	2000	IS 3025 (Part 16)-1984; Rffm:2014	82
6.	Sulphate (as SO_4) in mg/l	200	400	IS 3025 (Part 24)- 1986 Rffm: 2014	11
7.	Calcium (as Ca) in mg/l	75	200	IS 3025 (Part 40)- 1991 Rffm: 2014	21
8.	Arsenic (as As) in mg/l	0.01	0.05	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
9.	Lead (as Pb) in mg/l	0.01	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
10.	Zinc (as Zn) in mg/l	5	15.0	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
11.	Copper (as Cu) in mg/l	0.05	1.5	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
12.	Mercury (as Hg) in mg/l	0.001	No Relaxation	IS 3025 (Part 48)-1994 Rffm: 2014	BDL(DL:0.01)
13.	Cadmium (as Cd) in mg/l	0.003	No Relaxation	IS 3025 (PART 2) 2004 RA 2014	BDL(DL:0.05)
14.	Mineral Oil in mg/l	0.5	No Relaxation	IS 3025 (Part 39)-1991 Rffm: 2014	BDL(DL:1.0)
15.	Fluoride (as F) in mg/l	1	1.5	IS 3025 (Part 60)- 2008 Rffm: 2013	BDL(DL:0.2)
16.	Colour (Hazen Unit)	5	15.0	3025 (Part 4)-1983; Rffm:2012	BDL(DL:1.0)
17.	Residual free Chlorine in mg/l	0.2	1.0	IS 3025 (Part 26)- 1986 Rffm:2014	BDL(DL:0.1)
18.	Iron (as Fe) in mg/l	1	No Relaxation	IS 3025 (Part 53)-1988 Rffm: 2014	0.18
19.	Chloride (as Cl) in mg/l	250	1000	IS 3025 (Part 32)-1988 Rffm: 2014	11.88
20.	Alkalinity (as $CaCO_3$) in mg/l	200	600	IS 3025 (Part 23)- 1986 Rffm: 2014	68.0
21.	Aluminium (as Al) in mg/l	0.03	0.2	IS 3025 (Part 2)- 2004 RA: 2014	0.27
22.	Magnesium (as Mg) in mg/l	30	100	IS 3025 (Part 46)-1994 Rffm: 2014	4.49
23.	Boron (as B) in mg/l	0.5	1.0	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.5)
24.	Manganese (as Mn) in mg/l	0.1	0.3	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
25.	Nitrate (as NO_3) in mg/l	45	No Relaxation	IS 3025 (Part 34)-1988 Rffm: 2014	0.94
26.	Phenolic Compounds (as C6H5OH) in mg/l	0.001	0.002	IS 3025 (Part 43)- 1992 Rffmd 2014	BDL(DL:0.001)
27.	Selenium (as Se) in mg/l	0.01	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
28.	Total Chromium (as Cr) in mg/l	0.05	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
29.	Cyanide (as CN) in mg/l	0.05	No Relaxation	IS 3025 (Part 27)- 1986 Rffm: 2014	BDL(DL:0.05)
30.	Anionic Detergents (as MBAS) in mg/l	0.2	1.0	IS 13428(Annex K)- 2005	BDL(DL:0.1)
31.	Polynuclear Aromatic Hydrocarbons (as PAH) in mg/l	0.0001	No Relaxation	APHA (23rd Edtn) 6440C	BDL(DL:0.01)

Report Prepared by: Sk. Mohanty

For Mitra S. K. Private Limited
A. K. Rath.
Authorized Signatory

Mitra S. K. Private Limited

Building No. P-48,
Udayan Industrial Estate,3,
Pagladanga Road
Kolkata 700015.
Tel. : 91 7044036120. **Fax** : 91 33 23230078.
Email : udayanlab@mitrask.com

TEST REPORT

Name & Address of the Customer :
AARTI STEELS LIMITED
Ghantikhal , Athagarh , Cuttack

Report No. : BBS/622
Date : 15.11.2025
Sample No. : MSKGL/FD/2025-26/10/00914
Sample Description : Ground Water
Sampling Location : Borewell at Subarnamanjaripur
Date of Sampling : 23.10.2025

BACTERIOLOGICAL ANALYSIS RESULT AS PER IS: 10500 – 2012

Sl. No	Test Parameters	Limit	Test Method / Specification	Result
1.	E. Coli/100ml	Not Detectable	IS: 15185 : 2016	Not-Detected
2.	Total Coliform Organism/100ml	Not Detectable	IS: 15185 : 2016	Not Detected

CHEMICAL ANALYSIS RESULT AS PER IS: 10500 – 2012

Sl. No.	Test Parameter	Requirement (Acceptable Limit)	Permissible limit in the absence of alternate Source	Test Method / Specification	Result
1.	pH (at 26^0 C)	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)-1984 Rffm: 2012	7.4
2.	Odour	Agreeable	Agreeable	IS 3025 (Part 5)-1983 Rffm:2012	Agreeable
3.	Turbidity in (N.T.U)	1	5.0	IS 3025 (Part 10)-1984 Rffm: 2012	1.9
4.	Total Hardness (as $CaCO_3$) in mg/l	200	600	IS 3025 (Part 21)-2013	91
5.	Total Dissolved Solids in mg/l	500	2000	IS 3025 (Part 16)-1984; Rffm:2014	58
6.	Sulphate (as SO_4) in mg/l	200	400	IS 3025 (Part 24)- 1986 Rffm: 2014	16
7.	Calcium (as Ca) in mg/l	75	200	IS 3025 (Part 40)- 1991 Rffm: 2014	26
8.	Arsenic (as As) in mg/l	0.01	0.05	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
9.	Lead (as Pb) in mg/l	0.01	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
10.	Zinc (as Zn) in mg/l	5	15.0	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
11.	Copper (as Cu) in mg/l	0.05	1.5	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
12.	Mercury (as Hg) in mg/l	0.001	No Relaxation	IS 3025 (Part 48)-1994 Rffm: 2014	BDL(DL:0.01)
13.	Cadmium (as Cd) in mg/l	0.003	No Relaxation	IS 3025 (PART 2) 2004 RA 2014	BDL(DL:0.05)
14.	Mineral Oil in mg/l	0.5	No Relaxation	IS 3025 (Part 39)-1991 Rffm: 2014	BDL(DL:1.0)
15.	Fluoride (as F) in mg/l	1	1.5	IS 3025 (Part 60)- 2008 Rffm: 2013	BDL(DL:0.2)
16.	Colour (Hazen Unit)	5	15.0	3025 (Part 4)-1983; Rffm:2012	BDL(DL:1.0)
17.	Residual free Chlorine in mg/l	0.2	1.0	IS 3025 (Part 26)- 1986 Rffm:2014	BDL(DL:0.1)
18.	Iron (as Fe) in mg/l	1	No Relaxation	IS 3025 (Part 53)-1988 Rffm: 2014	0.23
19.	Chloride (as Cl) in mg/l	250	1000	IS 3025 (Part 32)-1988 Rffm: 2014	7.92
20.	Alkalinity (as $CaCO_3$) in mg/l	200	600	IS 3025 (Part 23)- 1986 Rffm: 2014	64
21.	Aluminium (as Al) in mg/l	0.03	0.2	IS 3025 (Part 2)- 2004 RA: 2014	0.21
22.	Magnesium (as Mg) in mg/l	30	100	IS 3025 (Part 46)-1994 Rffm: 2014	4.39
23.	Boron (as B) in mg/l	0.5	1.0	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.5)
24.	Manganese (as Mn) in mg/l	0.1	0.3	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
25.	Nitrate (as NO_3) in mg/l	45	No Relaxation	IS 3025 (Part 34)-1988 Rffm: 2014	0.9
26.	Phenolic Compounds (as C6H5OH) in mg/l	0.001	0.002	IS 3025 (Part 43)- 1992 Rffmd 2014	BDL(DL:0.001)
27.	Selenium (as Se) in mg/l	0.01	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
28.	Total Chromium (as Cr) in mg/l	0.05	No Relaxation	IS 3025 (Part 2)- 2004 RA: 2014	BDL(DL:0.05)
29.	Cyanide (as CN) in mg/l	0.05	No Relaxation	IS 3025 (Part 27)- 1986 Rffm: 2014	BDL(DL:0.05)
30.	Anionic Detergents (as MBAS) in mg/l	0.2	1.0	IS 13428(Annex K)- 2005	BDL(DL:0.1)
31.	Polynuclear Aromatic Hydrocarbons (as PAH) in mg/l	0.0001	No Relaxation	APHA (23rd Edtn) 6440C	BDL(DL:0.01)

Report Prepared by: S.K. Mohanty

For Mitra S. K. Private Limited
S.K. Rath.
Authorized Signatory

Annexure 11 - Solid Waste Management Report

AARTI STEELS LIMITED, GHANTIKHAL, CUTTACK							
Solid Waste Management Report for the Year (April 2025 - March 2026)							
Sl.No.	Process Unit	Category of Waste	Waste Generation at full operating capacity (TPY)	Waste Generation at present operating capacity (TPY)	Waste Utilization (TPY)	Utilisation (In %)	Management
1	0.2 MTPA SMS	Slag	56100	34941.00	34941.00	100.00	1.Reuse for Project activities. 2.Disposed off for road making/ land filling/ disposal after iron recovery
2	2 X 500 TPD DRI	Char	132000	67929.00	67900.00	99.96	1.Reused as Fuel in our captivre Power plant
		Iron Fines	132000	100869.00	95500.00	94.68	1. Reused through Authorized Vendors
		Wet scrapper sludge	10560	4807.00	4800.00	99.85	1. Disposed to allocated solid waste disposal site inside plant premises only
		DE Dust	21450	16800.00	16800.00	100.00	1.DE dust is used in-house DRI after burning chamber for energy recovery
3	90 MW Power Plant	Fly ash from AFBC, CFBC, WHRB - I &II	287000	217194.00	217197.00	100.00	1.Utilizede at Cement Industry, road Construction (inhouse/NH/SH/RD), Brick Manufacturing Units Etc.
		Bottom ash from AFBC, CFBC,	107000	81147.00	81147.00	100.00	1.Utilizede at Cement Industry, road Construction (inhouse/NH/SH/RD), Brick Manufacturing Units Etc.
4	2 X 9 MVA	Slag	25000	20176.00	20176.00	100.00	1. Road making, land filling and balance is disposed in the allocated disposal site
5	1 x 18 MVA	Slag	25000	23395.00	23395.00	100.00	1. Road making, land filling and balance is disposed in the allocated disposal site
6	0.2 MTPA Rolling Mill	Mill Scale	2400	1189.00	1189.00	100.00	1. Sold to Authorized Vendors
Total			798510.00	568447.00	563045.00	99.05	

AARTI STEELS LIMITED GHANTIKHAL CUTTACK

Annexure 12 - Hazardous Waste Management detail

AARTI STEELS LIMITED

An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and IATF 16949:2016 Certified Company

City Office : Plot No. 18/1B, Sector-10, CDA
Cuttack – 753 014, (Orissa) India
Phone : +91-671-3061000, 2309285,
Fax : +91-671-3061150, 2309407
E-mail : cuttack@aartisteelsltd.com

HAZARDOUS WASTE MANAGEMENT

HAZARDOUS MANAGEMENT AT AARTI STEELS LIMITED,GHANTIKHAL

Sl. No.	Waste Description	Waste Class/ Stream	Schedule	Quantity	Disposal
1	Used/ Spent oil	5.1	1	30 TPA	Being sold to OSPCB authorized re-refiner/recycler.
2	Waste/ Residue containing oil	5.2	1	1.7 TPA	Being disposed off in the impervious pit/containers with covers.
3	Spent resin from DM plant	35.2	1	3.5 TPA	Being stored in impervious pit/containers over impervious floor under well ventilated covered shed followed by utilization in DRI kilns for energy recovery.
4	Flue gas cleaning residue	35.1	1	1000 TPA	Being Utilized for briquette manufacturing for use as raw material in the ferro-alloys furnace inside our plant premises.

Metal Recovery Plant – Operation Summary (Jigging Unit)

1. Introduction

The Metal Recovery Plant (Jigging Unit) is designed to recover valuable metallic fractions from slag/by-products generated from the Ferro Alloy Plant. The unit enhances material recovery, reduces waste disposal, and contributes to resource conservation and circular economy principles.

2. Process Description

The Jigging Unit operates on the principle of **gravity separation**, where differences in density between metallic and non-metallic particles allow effective separation.

Major steps include:

- **Feeding:**
  Crushed slag is fed into the jigging machine through a controlled feeder.
- **Settling:**
  A pulsating water flow creates stratification inside the jig bed, causing heavier metallic particles to settle at the bottom while lighter material stays on top.
- **Separation:** (typically 0-5 mm & 6-18 mm)
  Metal-rich fraction is collected as *concentrate*.
  Slag-rich fraction is discharged as *tailings*.
- **Dewatering:**
  Recovered metal and slag fractions are dewatered through screens before storage or reuse.
- **Water Recirculation System:**
  Process water is recycled using settling tanks to minimize freshwater consumption.

3. Operational Performance

Key operational parameters generally monitored:

Feed rate: 10 TPH Capacity
Metal content in feed: 8-9 %

4. Output & Utilization

a. Recovered Metal: Sent back to the Ferro Alloy Furnace as a raw material substitute.

b. Non-Metallic Fraction: Utilized for road making, landfill preparation or stored in designated slag yards as per SPCB guidelines.

Organic Waste Converter (OWC)

The OWC machines are used for scientific treatment and management of biodegradable waste generated from canteen activities such as food waste, vegetable waste, and other organic waste materials.

The plant has installed **02 Nos. of Organic Waste Converter (OWC) Machines** at:

1. Central Canteen
2. Staff Colony Canteen

Purpose

1. To process organic waste in an environmentally friendly manner.
2. To reduce disposal of biodegradable waste to landfill.
3. To maintain hygienic conditions within the premises.
4. To promote sustainable waste management practices.

Working Principle

The OWC processes organic waste through:

1. **Shredding/Cutting** – Reduces waste size.
2. **Mixing** – Waste is mixed with sawdust/culture powder.
3. **Heating & Aeration** – Removes moisture and accelerates decomposition.
4. **Composting** – Semi-compost output is cured naturally for final manure formation.

Input Materials

- Food waste
- Vegetable & fruit waste
- Canteen waste
- Garden waste
- Biodegradable organic waste

Output

- Organic compost suitable for gardening and plantation purposes.

Major Components

- Shredder
- Mixing drum/chamber
- Heater system
- Air blower
- Control panel
- Compost collection tray/bin

Benefits

- Reduces waste volume by 80–90%.
- Minimizes foul odour and pest issues.
- Produces eco-friendly compost.
- Reduces transportation and landfill disposal cost.
- Supports compliance with Solid Waste Management Rules.

Capacity of OWC

- 30 kg/day

Environmental Significance

The Organic Waste Converter helps in:

- Reducing greenhouse gas emissions from landfill disposal.
- Promoting circular economy and sustainable waste management.
- Improving housekeeping and environmental compliance within the premises.

OWC Photograph

Near Canteen Area

Annual Ash Compliance Report for the Period 1st April' 2025 to 31st March'2026
AARTI STEELS LIMITED, CUTTACK, ODISHA

Sr. No.	Details	
1.	Name of Power Plant	Power Plant, Aarti Steels Ltd.
2.	Name of the company	Aarti Steels Limited
3.	District	Cuttack
4.	State	Odisha
5.	Postal address for communication:	At: Ghantikhal, Po: Mahakalabasta, Via: Atthagarh, Dist: Cuttack-754029, Odisha
6.	E-mail:	environment@aartisteelsltd.com
7.	Power Plant installed capacity (MW):	90 MW (40 MW + 50MW)
8.	Plant Load Factor (PLF):	75.7 (330 days of operation)
9.	No. of units generated (MWh):	540046 MWh
10.	Total area under power plant (ha): (including area under ash ponds)	21.78 ha (Ash pond - 19.46 ha, Power Plant - 2.31 ha)
11.	Quantity of coal consumption during reporting period (Metric Tons per Annum):	569194 MT
12.	Average ash content in percentage (per cent):	52.415 %
13.	Quantity of current ash generation during reporting period (Metric Tons per Annum i.e. MTPA): **Fly ash (MTPA):** **Bottom ash (MTPA):**	**298344 MT** **217197 MT** **81147 MT**
14.	Capacity of dry fly ash storage silo(s) (Metric Tons) :	500 MT x 2, 100 MT x 1
15.	Details of utilisation of current ash generated during reporting period (a) **Total quantity of current ash utilised (MTPA) during reporting period:**	**298344 MT**
	(b) Quantity of fly ash utilised (MTPA):	**217197 MT**
	(i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels)	174107 MT
	(ii) Cement manufacturing	0 MT
	(iii) Ready mix concrete	-
	(iv) Ash and Geopolymer-based construction material	-
	(v) Manufacturing of sintered or cold bonded ash aggregate	-
	(vi) Construction of roads, road and fly over embankment	43090 MT
	(vii) Construction of dams	-
	(viii) Filling up of low lying area	-
	(ix) Filling of mine voids	-
	(x) Use in overburden dumps	-
	(xi) Agriculture	-
	(xii) Construction of shoreline protection structures in coastal districts;	-
	(xiii) Export of ash to other countries:	-
	(xiv) Others (please specify)	-
	(c) Quantity of bottom ash utilised (MTPA):	**81147 MT**
	(i) Bottom ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):	64960 MT
	(ii) Cement manufacturing:	-
	(iii) Ready mix concrete:	-
	(iv) Ash and Geo-polymer based construction material:	-
	(v) Manufacturing of sintered or cold bonded ash aggregate:	-

	(vi) Construction of roads, road and flyover embankment:	16187 MT		
	(vii) Construction of dams:	-		
	(viii) Filling up of low lying area:	-		
	(ix) Filling of mine voids:	-		
	(x) Use in overburden dumps:	-		
	(xi) Agriculture:	-		
	(xii) Construction of shoreline protection structures in coastal districts:	-		
	(xiii) Export of ash to other countries:	-		
	(xiv) Others (please specify):	-		
	Total quantity of current ash unutilised (MTPA) during reporting period:	**298344 MT**		
16.	Percentage utilisation of current ash generated during reporting period (per cent):	100 %		
17.	Details of disposal of ash in ash ponds: (a) Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31st March (excluding reporting period):	**346410** MT		
	(b) Quantity of ash disposed in ash pond(s) during reporting period (Metric Tons):	0 MT		
	(c) Total quantity of water consumption for slurry discharge into ash ponds during reporting period (m^3)	Nil		
	(d) Total number of ash ponds: (i) Active: (ii) Exhausted (yet to be reclaimed): (iii) Reclaimed:	3 1 - 2		
	(e) Total area under ash ponds (ha):	19.46 ha		
18.	Individual ash pond details: *Ash pond-1, 2, etc. (please provide below mentioned details separately, if number of ash ponds is more than one)*	**Ash Pond-1**	**Ash Pond-2**	**Ash Pond-3**
	(a) Status: Under construction or Active or Exhausted or Reclaimed	Reclaimed with Green belt	Reclaimed with Green belt	Active in less frequency .
	(b) Date of start of ash disposal in ash pond (DD/MM/YYYY or MMYYYY):	Sept 2005	Sept 2007	March 2010
	(c) Date of stoppage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MM/YYYY): (Not applicable for active ash ponds)	Sept 2014	Sept 2018	NA
	(d) Area (hectares):	7.5 ha	3.75 ha	8.21 ha
	(e) Dyke height (m):	5 m	5 m	5 m
	(f) Volume (m^3):	364250 m3	182125 m3	399500 m3
	(g) Quantity of ash disposed as on 31st March (Metric Tons)	346040 MT	173020 MT	324217 MT
	(h) Available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons): (Unit weight 1.2 g/cc)	Nil	Nil	75283 MT (18.84 %)
	(i) Expected life of ash pond (number of years and months):	Reclaimed with green belt	Reclaimed with green belt	Within 10 years of publication flyash notification.
	(j) Co-ordinates (Lat. and Long): (please specify minimum 4 co-ordinates)	20°30' 52" N 85°43' 07" E	20°31' 02" N 85°42' 59" E	20°31' 08" N 85°42' 55" E
		20°31' 00" N 85°43' 10" E	20°30' 56" N 85°42' 55" E	20°30' 58" N 85°42' 50" E
		20°31' 02" N 85°42' 59" E	20°30' 58" N 85°42' 51" E	20°31' 03" N 85°42' 44" E

		20°30' 55" N 85°42' 56" E	20°31' 05" N 85°42' 54" E	20°31' 11" N 85°42' 48" E
	(k) Type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining	No Lining	No Lining	No Lining
	(l) Mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD/MCSD/LCSD)	Earlier wet disposal (LCSD) now reclaimed with green belt.	Earlier wet disposal (LCSD) now reclaimed with green belt.	Dry disposal.
	(m) Ratio of ash: water in slurry mix (1: ___):.	1:3	1:3	Nil
	(n) Ash water recycling system (AWRS) installed and functioning: Yes, or No	Previously Yes, now covered with green belt	Previously Yes, now covered with green belt	Yes
	(o) Quantity of wastewater from ash pond discharged into land or water body (m^3):	Nil	Nil	Nil
	(p) Last date when the dyke stability study was conducted and name of the organisation who conducted the study:	N/A		
	(q) Last date when the audit was conducted and name of the organisation who conducted the audit:	Annual ash audit in the year 2025, by NIT,Rourkela (Prof. SP Singh)		
19.	**Quantity of legacy ash utilised (MTPA):**	**22193 MT**		
	i. Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):	-		
	ii. Cement manufacturing:	-		
	iii. Ready mix concrete:	-		
	iv. Ash and Geo-polymer based construction material:	-		
	v. Manufacturing of sintered or cold bonded ash aggregate:	-		
	vi. Construction of roads, road and flyover embankment:	22193 MT		
	vii. Construction of dams:	-		
	viii. Filling up of low lying area:	-		
	ix. Filling of mine voids:	-		
	x. Use in overburden dumps:	-		
	xi. Agriculture:	-		
	xii. Construction of shoreline protection structures in coastal districts;	-		
	xiii. Export of ash to other countries:	-		
	xiv. Others (please specify):	-		

20. **Summary:**

Details	Quantity Generated (MTP)	Quantity Utilized (MTP) & (percent)	Balance Quantity (MTP)
Current ash during reporting period	298344 MT	298344 MT (100 %)	0 MT
Legacy ash	346410 MT	22193 MT	324217 MT
Total	**644754 MT**	**320537 MT**	**324217 MT**

21.	Any other information: Soft copy of the annual compliance report, and shape files of power plant and ash ponds may be e-mailed to: **moefcc-coalash@gov.in**	
22.	Signature of Authorised Signatory	14/05/26 ARTI STEEL LIMITED GHANTIKHAL CUTTACK 15/5/26

Annexure 16 - Plantation Details (Greenbelt details)

PLANTATION DETAILS

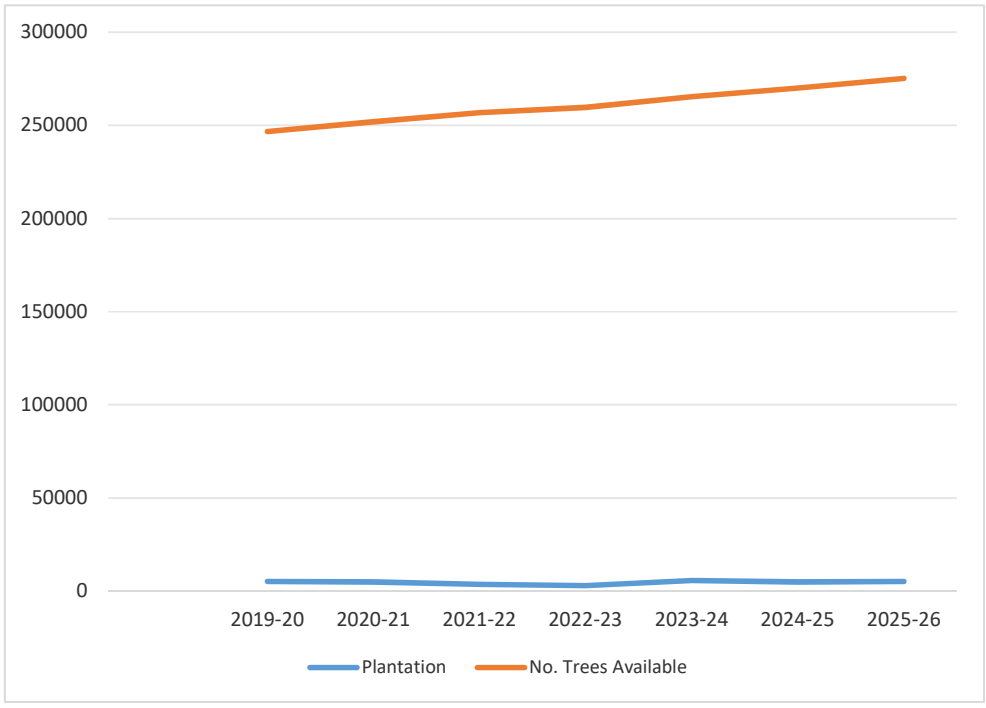
Year	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Plantation	5240	4850	3560	2850	5640	4820	5120
No. Trees Available	246730	251970	256820	259670	265310	270130	275250

Types of Species of Trees

Sl. No.	Species Name	Scientific Name	Total No. Of Trees
1	Chakunda	Senna Occidentalis	14500
2	Acasia	Acasia Auriculiformis	13500
3	Cashew	Anacardium Occidentale	12500
4	Kochila	Strychnos Nux-vomica	13000
5	Neem	Azadirachta Indica	13500
6	Karanja	Milletia Pinnata	12500
7	Chironji	Buchanania Cochinchinesis	12000
8	Kurei	Hollorhena Pubescens	14000
9	Bela	Aegla Mermelos	100
10	Kendu	Diospyres Melanoxylon	17500
11	Giringa	Pterospernum Xylocarpum	15550
12	Bheru	Chloroxylon Swietenia	14500
13	Amaltash	Fics Infectoria	100
14	Niras (Chara)	Memecylon Umbellatum	15000
15	Dalshing	Suregada Anguistifolia	14000
16	Atundi	Combretum Roxburght	13500
17	Mango	Mangifiera Indica	9000
18	Teak	Tectona Grandis	800
19	Krishnachuda	Delonix Regia	1000
20	Pistachio	Pistacia Vera	2000
21	Arjuna	Terminalia Arjun	2000
22	Jamun	Syzygium Cumuni	300
23	Sissoo	Dalbergia Sissoo	9500
25	Amla	Terminalia chebula	500
26	Debdaru	Polyanthia longifolia	500
28	Gambhari	Gmelina Arborea	12000
29	Subabul	Leucaena leucocephala	13500
30	Jack Fruit	Artocarpus heterophyllus	1000
31	Piasala	Pterocarpus Marsupium	5000
32	Jacranda	Jacaranda mimosifolia	1000
33	Sirisa	Albizia lebbeck	7400
35	Ber	Ziziphus mauritiana	1000
36	Bahada	Terminalia bellirica	5000
37	Harida	Terminalia chebula	8000
Total			**275250**

Total Project Area: 283.4 Ha.

Greenbelt Area: 111.5 Ha.


300000
250000
200000
150000
100000
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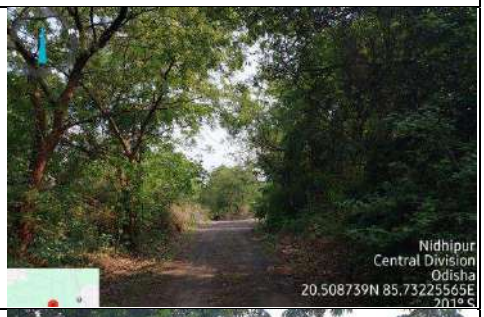
0
2019-20
2020-21
2021-22
2022-23
2023-24
2024-25
2025-26
Plantation
No. Trees Available

(Greenbelt Photographs)



CONSOLIDATED PERIPHERAL EXPENDITURES IN DIFFERENT HEADS (April-25 to March-26)

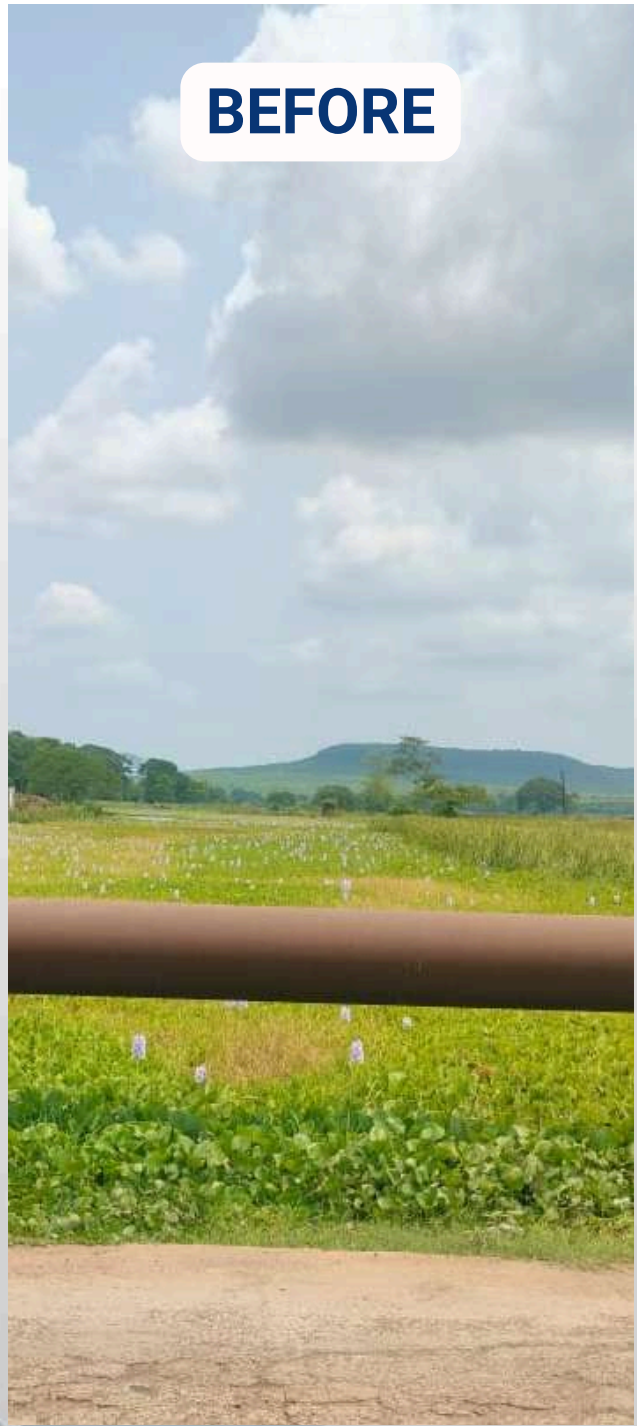
SL NO	PARTICULARS	AMOUNT
01	HEALTH CARE	0
02	EDUCATION	2,95,430.00
03	SPORTS	70,000.00
04	COMMUNITY DEVELOPMENT, SOCIAL WELFARE & OTHERS	34,52,300.00
	TOTAL	**Rs 38,17,730.00/-**

CSR Impact & Expenditure Highlights

2025–2026

MEDICINE DISTRIBUTION

RIVER CLEANING



WATER PURIFIER INSTALLATION

BAG DISTRIBUTION

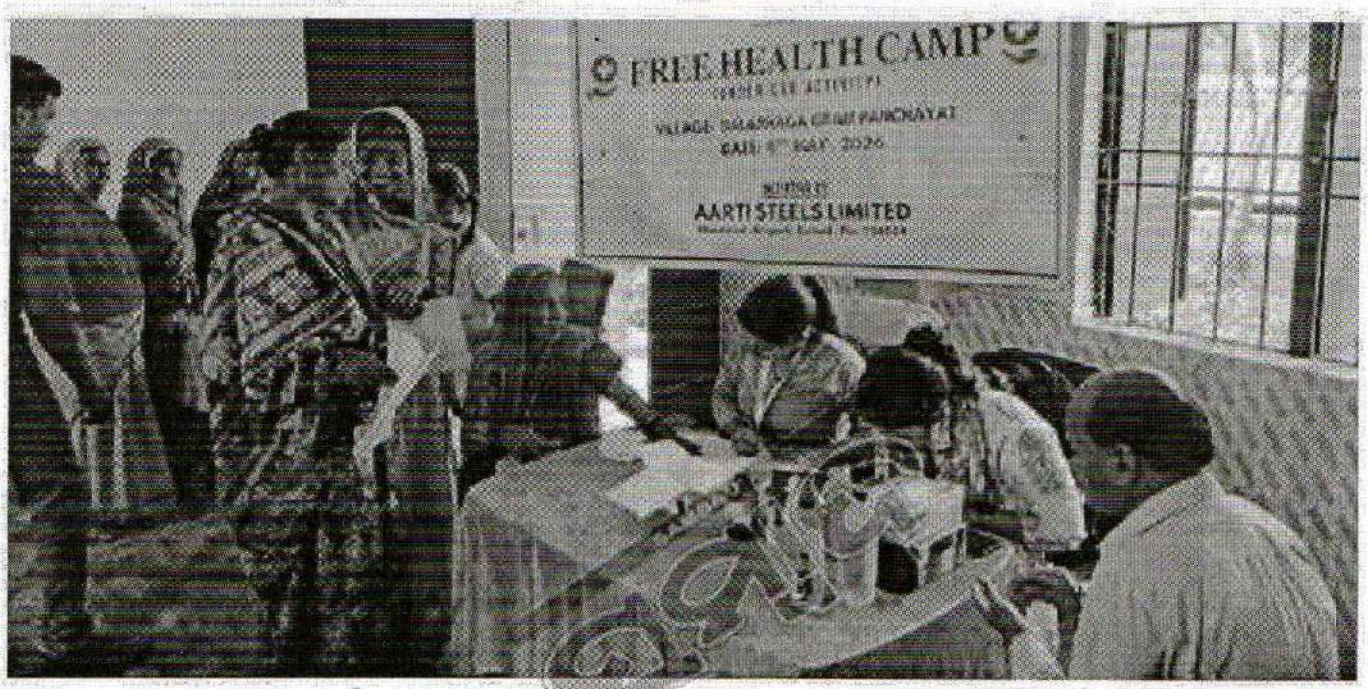
OBSERVE INTERNATIONAL WOMEN'S DAY

GENERAL HEALTH AWARENESS ON NUTRITION AND MENSTRUAL HYGIENE

ସମ୍ବାଦ

ସମ୍ବାଦ

ଆରତି ଷ୍ଟିଲ୍ ପକ୍ଷରୁ ନିଃଶୁଳ୍କ ସ୍ୱାସ୍ଥ୍ୟପରୀକ୍ଷା ଶିବିର



ଖୁଣ୍ଟୁଣୀ, ୧୨।୫(ଇମିସ): କଟକ ଜିଲ୍ଲା ଘଣ୍ଟିଖାଲସ୍ଥିତ ଆରତି ଷ୍ଟିଲ୍ ପ୍ଲାଣ୍ଟ ପକ୍ଷରୁ ଏକ ନିଶୁଳ୍କ ସ୍ୱାସ୍ଥ୍ୟ ପରୀକ୍ଷା ଶିବିର ସ୍ଥାନୀୟ ଡାଳଭାଗ ପଞ୍ଚାୟତ କଲ୍ୟାଣମଣ୍ଡପ ଠାରେ ଅନୁଷ୍ଠିତ ହୋଇଯାଇଛି। ଆରତି ଷ୍ଟିଲ୍ ପ୍ଲାଣ୍ଟ ଅପରେସନ୍ ହେଡ୍ ଅମିତ୍ କାନୁନ୍‌ଗୋ, ଡାଳଭାଗ ସରପଞ୍ଚଙ୍କ ପ୍ରତିନିଧି ରଞ୍ଜନ ବେଉରା, ଗ୍ରାମ ସଭାପତି ଓ ମୁରବିଙ୍କ ଉପସ୍ଥିତିରେ ଏହି ସ୍ୱାସ୍ଥ୍ୟ ପରୀକ୍ଷା ଶିବିର ଉଦଘାଟିତ ହୋଇଥିଲା। ଶିବିରରେ ବିଶେଷଜ୍ଞ ଡାକ୍ତରମାନେ ଯୋଗଦେଇ ଡାଳଭାଗ ପଞ୍ଚାୟତରୁ ଆସିଥିବା ଶତାଧିକ ଲୋକଙ୍କ ସ୍ୱାସ୍ଥ୍ୟ ପରୀକ୍ଷା କରି ଔଷଧ ପ୍ରଦାନ କରିଥିଲେ। ଏହି ଅବସରରେ ଆରତି ଷ୍ଟିଲ୍ ପକ୍ଷରୁ ସ୍ଥାନୀୟ ଲୋକମାନଙ୍କ ମଧ୍ୟରେ ପ୍ରତିରୋଧାତ୍ମକ ସ୍ୱାସ୍ଥ୍ୟ ସଚେତନତା ବୃଦ୍ଧି କରିବା ସହ ମୌଳିକ ସ୍ୱାସ୍ଥ୍ୟ ଅଭ୍ୟାସ ସମ୍ବନ୍ଧୀୟ ଜ୍ଞାନ ପ୍ରଚାର କରାଯାଇଥିଲା। ଶିବିରରେ ଉପସ୍ଥିତ ଜନସାଧାରଣଙ୍କୁ ମୌଳିକ ସ୍ୱାସ୍ଥ୍ୟପରୀକ୍ଷା, ଡାକ୍ତରୀ ପରାମର୍ଶ ଏବଂ ସ୍ୱାସ୍ଥ୍ୟ ସମ୍ବନ୍ଧୀୟ ମାର୍ଗଦର୍ଶନ ପ୍ରଦାନ କରାଯାଇଥିଲା। ଏହି ଶିବିରକୁ ଆରତି ଷ୍ଟିଲ୍‌ର ସାମାଜିକ ଦାୟିତ୍ୱ ବିଭାଗ (ସିଏସ୍‌ଆର) କର୍ମଚାରୀମାନେ ପରିଚାଳନା କରିଥିଲେ।

Annexure 18 - Expenditure incurred on environmental protection measures

Expenditure Incurred on Environmental Protection Measures

Aarti Steels Limited (for the period 01.04.2025 to 31.03.2026)

- Total Expenditure incurred so far is **Rs 1214.08 (As per CA certificate)**
- Total cost incurred on environmental protection measures as on 31.03.2026 (FY 2025-26) is **165.07 crore.**

Sl. No.	Category	Total Cost incurred till 31.03.2025 (in Crore)	Total Cost incurred till 31.03.2026 (in Crore)
1.	Air Pollution Control	76.97	81.23
2.	Water Pollution Control	5.59	7.12
3.	Conservation of Resources	1.01	0.92
4.	Noise Pollution Control	0.2125	0.2
5.	Environment Monitoring	10.87	11.66
6.	Occupational Health	8.03	9.34
7.	Green Belt Development	12.65	7.7
8.	House Keeping	7.55	4.24
9.	Peripheral Development	2.296	5.9
10.	Solid Waste Management	22.35	15.20
11.	Hazardous Waste Management	0.61	0.72
12.	Statutory Fees	15.4	14.5
13.	Bio-medical Waste Management	0.019	0.04
14.	Others	8.68	6.3
	Total	**172.25**	**165.07**

Annexure 19 - Newspaper Advertisement copy

...work for improvement of road. Rs. 8,29,400

All other conditions in the tender call notice remain unchanged.

S/1397

Executive Engineer
Muran Dam Division

ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ, ଓଡ଼ିଶା

ଏ/୧୧୮, ନୀଳକଣ୍ଠ ନଗର, ଭୁବନେଶ୍ୱର-୧୨

ବିଜ୍ଞାପନ

ଏତଦ୍ୱାରା ଏ ସଂପର୍କିତ ସମସ୍ତଙ୍କ ଅବଗତି ନିମନ୍ତେ ଜଣାଇ ଦିଆଯାଉଛି ଯେ ମେସର୍ସ ଆରତୀ ଷ୍ଟିଲସ ଲିମିଟେଡ, ଓଡ଼ିଶାର କଟକ ଜିଲାର ଆଠଗଡ ତହସିଲର ଜୟପୁର, ଘଣ୍ଟିଖାଲ, ମାଧବପୁର ଗ୍ରାମଠାରେ ଏକ ସମନ୍ୱିତ ଇସ୍ପାତ କାରଖାନା ସ୍ଥାପନ କରିବା ପାଇଁ ଭାରତ ସରକାରଙ୍କର ଜଙ୍ଗଲ ଓ ପରିବେଶ ବିଭାଗ ଦ୍ୱାରା ପରିବେଶୀୟ ମଞ୍ଜୁରୀ ନିମିତ୍ତ ରାଜ୍ୟ ପ୍ରଦୂଷଣ ବୋର୍ଡକୁ ଆବେଦନ କରିଛନ୍ତି ଏବଂ ଭାରତ ସରକାରଙ୍କ ପରିବେଶ ଓ ଜଙ୍ଗଲ ମନ୍ତ୍ରଣାଳୟର ପରିବେଶୀୟ ମଞ୍ଜୁରୀ ନିମିତ୍ତ ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ, ଭୁବନେଶ୍ୱରକୁ ଏକ ଅଧିସୂଚନା ସଂଖ୍ୟା ଏସଓ ୩୧୮ (ଇ) ତା ୧୦.୪.୯୭ ଅନୁଯାୟୀ ଏକ ସର୍ବସାଧାରଣ ଶୁଣାଣି କରିବାର କ୍ଷମତା ପ୍ରଦାନ କରିଛନ୍ତି। ଏନିମିତ୍ତ ବୋର୍ଡ ସର୍ବସାଧାରଣଙ୍କ ସମେତ ପ୍ରକୃତ ଅଧିବାସୀ, ପରିବେଶୀୟ ସଂସ୍ଥା ଏବଂ ପ୍ରସ୍ତାବିତ ପ୍ରକଳ୍ପ ସ୍ଥାପନ ହେଉଥିବା ସ୍ଥାନରେ ବାସିନ୍ଦା, ପ୍ରକଳ୍ପ ଯୋଗୁଁ ଉଚ୍ଛେଦ ହେଉଥିବା ବାସିନ୍ଦା, ପ୍ରକଳ୍ପ ଯୋଗୁଁ ପ୍ରଭାବିତ ହେଉଥିବା ବାସିନ୍ଦାମାନଙ୍କଠାରୁ ପ୍ରକଳ୍ପ ସ୍ଥାପନ ଯୋଗୁଁ ପରିବେଶୀୟ ପ୍ରଭାବ ସମ୍ବନ୍ଧୀୟ ପ୍ରସ୍ତାବ, ମତାମତ, ମନ୍ତବ୍ୟ ଓ ଆପତ୍ତିପତ୍ର ଆହ୍ୱାନ କରୁଛନ୍ତି। ଏନିମିତ୍ତ ବ୍ୟକ୍ତିର ଅର୍ଥ କେବଳ ନିମ୍ନମତେ ବୁଝାଯାଉଛି (କ) ପରିବେଶୀୟ ମଞ୍ଜୁରୀ ଦ୍ୱାରା ପ୍ରଭାବିତ ହେଉଥିବା ବା ହେବାକୁ ଥିବା ଯେକୌଣସି ବ୍ୟକ୍ତି (ଖ) ପରିବେଶୀୟ ମଞ୍ଜୁରୀ ପାଇଁ ଦିଆଯାଉଥିବା ଦରଖାସ୍ତ ଉପରେ ନିୟନ୍ତ୍ରଣ ରଖିପାରୁଥିବା ଯେକୌଣସି ବ୍ୟକ୍ତି (ଗ) ପରିବେଶ କ୍ଷେତ୍ରରେ କାର୍ଯ୍ୟକରୁଥିବା କିମ୍ବା/ଏବଂ ପ୍ରସ୍ତାବିତ ପ୍ରକଳ୍ପଦ୍ୱାରା ପ୍ରଭାବିତ ହେଉଥିବା (ପଞ୍ଜିକୃତ ବା ଅପଞ୍ଜିକୃତ) ଯେକୌଣସି ବ୍ୟକ୍ତି ସମୂହଙ୍କ ସଂଘ (ଘ) ଯେକୌଣସି ସ୍ଥାନୀୟ କର୍ତ୍ତୃପକ୍ଷ, ଯାହାଙ୍କର ସ୍ଥାନୀୟ ସୀମାଭୁକ୍ତ ନିକଟବର୍ତ୍ତୀ ଅଞ୍ଚଳରେ ଉକ୍ତ ପ୍ରସ୍ତାବିତ ପ୍ରକଳ୍ପ ଅବସ୍ଥିତ ହେବାକୁ ଯାଉଛି। ଉପରୋକ୍ତ ବ୍ୟକ୍ତିମାନେ ସେମାନଙ୍କର ପ୍ରସ୍ତାବ, ମତାମତ, ମନ୍ତବ୍ୟ ଏବଂ ଆପତ୍ତି ଇତ୍ୟାଦିକୁ ସଦସ୍ୟସଚିବ, ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ, ଓଡ଼ିଶାଙ୍କୁ ଲିଖିତଆକାରରେ ଏହି ବିଜ୍ଞାପନ ପ୍ରକାଶନର ୩୦ ଦିନ ମଧ୍ୟରେ ରେଜିଷ୍ଟ୍ରି ଡାକରେ ଜଣାଇପାରିବେ। ଏତଦ୍‌ବ୍ୟତୀତ ଉକ୍ତ ପ୍ରସ୍ତାବିତ ପ୍ରକଳ୍ପ ଉପରେ ଲିଖିତ ବା ମୌଖିକଭାବେ ମତାମତ ଦେବାପାଇଁ ଇଚ୍ଛୁକ ବ୍ୟକ୍ତିମାନେ ଉପର ବର୍ଣ୍ଣିତ ଅଧିସୂଚନା ଅନୁଯାୟୀ ଗଠିତ ହୋଇଥିବା କମିଟି ଆଗରେ ୧୨.୧୧.୨୦୦୩ ତାରିଖରେ ଆଠଗଡର ରେଭିନ୍ୟୁ ଆଇବିଠାରେ ଦିନ ୧୧.୦୦ରେ ସର୍ବସାଧାରଣ ଶୁଣାଣିବେଳେ ମତାମତ ଉପସ୍ଥାପନା କରିପାରିବେ। ପ୍ରସ୍ତାବିତ ପ୍ରକଳ୍ପ ବିଷୟରେ ବିଶଦ ଭାବରେ ଜାଣିବା ପାଇଁ ପରିବେଶୀୟ ପ୍ରଭାବର ମୂଲ୍ୟାୟନ (Environment Impact Assessment)ର ନିର୍ବାହୀ ସାରାଂଶ (Executive Summary) ନିମ୍ନଲିଖିତ ସ୍ଥାନମାନଙ୍କରେ ମିଳିପାରିବ।

୧. ଜିଲାପାଳଙ୍କ କାର୍ଯ୍ୟାଳୟ, କଟକ
୨. ଜିଲା ଶିଳ୍ପ କେନ୍ଦ୍ର, କଟକ
୩. ଜିଲା ପରିଷଦର ମୁଖ୍ୟ ନିର୍ବାହୀ ଅଧିକାରୀ, କଟକ
୪. ମୁଖ୍ୟ କାର୍ଯ୍ୟାଳୟ, ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣବୋର୍ଡ, ଓଡ଼ିଶା, ପରିବେଶ ଭବନ, ଏ/୧୧୮, ନୀଳକଣ୍ଠ ନଗର, ଭୁବନେଶ୍ୱର- ୭୫୧ ୦୧୨।
୫. ଆଞ୍ଚଳିକ କାର୍ଯ୍ୟାଳୟ, ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣବୋର୍ଡ, ଓଡ଼ିଶା, ୫୮୨, ସୂର୍ଯ୍ୟ ବିହାର, ଲିଙ୍କରୋଡ, କଟକ।
୬. ଜଙ୍ଗଲ ଓ ପରିବେଶ (ପରିବେଶ) ବିଭାଗ, ଓଡ଼ିଶା ସରକାର, ଭୁବନେଶ୍ୱର।
୭. ଗ୍ରାମ ପଞ୍ଚାୟତ ଅଫିସ, ଘଣ୍ଟିଖାଲ ଏବଂ ମହାକାଳବସ୍ତ। ଏହାଛଡ଼ା ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣବୋର୍ଡର ୱେବ ସାଇଟ: www.ospcboard.orgରୁ ପାଇପାରିବେ।

ଏ ବିଷୟରେ ସବିଶେଷ ବିବରଣୀ ପାଇଁ ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ, ଓଡ଼ିଶାର ଆଞ୍ଚଳିକ କାର୍ଯ୍ୟାଳୟ, କଟକ କିମ୍ବା ଭୁବନେଶ୍ୱରସ୍ଥିତ ମୁଖ୍ୟ କାର୍ଯ୍ୟାଳୟରେ ସଦସ୍ୟ ସଚିବଙ୍କ ସହ ଯୋଗାଯୋଗ କରାଯାଇପାରେ। କୌଣସି ପ୍ରସ୍ତାବ, ମନ୍ତବ୍ୟ, ମତାମତ ବା ଆପତ୍ତି ଲିଖିତ ଆକାରରେ ଧାର୍ଯ୍ୟ ତାରିଖ ମଧ୍ୟରେ କିମ୍ବା ଲିଖିତ ବା ମୌଖିକ ଆକାରରେ ସର୍ବସାଧାରଣ ଶୁଣାଣି ବେଳେ କରାନଗଲେ ତାହା ବିଚାରକୁ ନିଆଯିବ ନାହିଁ।

ଅଧ୍ୟକ୍ଷଙ୍କ ଆଦେଶକ୍ରମେ
ଲଳିତକୁମାର ତିୱାରୀ
ସଦସ୍ୟ ସଚିବ

SC/1398

ଧ୍ୱନି ପ୍ରତିଧ୍ୱନି Dhwani Pratidhwani

ORISSA POLLUTION CONTROL BOARD
A/118, Nilakanthanagar, Bhubaneswar -751012
IND-II/PH-37/03

No. Date

NOTICE

It is brought to notice that M/s Aarti Steels Ltd., has proposed to have Environmental Assessment for an integrated steel plant & Captive power Plant at Nidhipur, Madhabpur & Ghantikhal of Athgarh Tahasil in the District of Cuttack, Orissa.

To obtain Environmental clearance from the Ministry of Environment & Forests, Govt. of India, the Proponents has applied to the Orissa Pollution Control Board, Bhuabaneswar for a Public hearing.

By Virtue of the notification of Ministry of Environment & Forests, No.S.O. 318(E) dt. 10.04.97, the Board has been authorised to conduct an environmental public hearing and as such invites suggestions, views, comments and objections on matters relating to environmental aspects of the proposed project from all the persons including bonafide residents, environmental groups and others located at the proposed site/ site of displacement/sites likely to be affected.

For the above propose, a person will only mean :

A. Any person who is likely to be affected by the grant of environmental clearance.
B. Any person who owns hi: control over the project with respect to which an application has been submitted for environmental clearance.
C. Any association of persons whether incorporated or not likely to be affected by the project and /or functioning in the field of environment.
D. Any local authority within any part of whose limit is within the neighborhood, where in the project is proposed to be located.

Persons as above who desire to submit their views, comments, objections etc. relevant to the project in writing may do so within 30 days from the date of publication of this notice addressing the same to the Member Secretary, Orissa Pollution Control Board , through Registered post. Besides this, persons interested to submit their views relevant to the proposed project in writing or orally may do so during the public hearing to be conducted by a committee constituted as per the Notification mentioned above at Revenue I.B. Athgarh, on 17.11.03 at 11.00A.M.

Persons desirous of participating in the public hearing may go through the executive summary of the Environment impact Assessment of the said project which will be available at the following place both in English & Oriya and the same can also be downloaded from our website: www ospc board .org free of cost

1. District Collector's Office, Cuttack
2. District Industrial Centre, Cuttack
3. In the office of the chief Executive Officer of Zilla Parisad, Cuttack
4. In the head office of the Orissa Pollution Control Board, Parivash Bhawan, A/118, Nilakantha Nagar, Unit -VIII, Bhubaneswar -12
5. Regional Office, Orissa Pollution Control Board, 568, Surya Vihar, Link Road Cuttack
6. Department of Forest & Environment (Environment) Govt.of Orissa, Bhubaneswar.
7. Office of the Mahakalabasta & Ghantikhal, Grampanchayat.

For any further clarification in the matter, the member Secretary, Orissa Pollution Control Board at Bhubaneswar may be contacted.

Suggestions, comments, objections etc. will not be entertained if not submitted in writing within the stipulated period or not submitted in writing or orally during the public hearing.

By order of Chairman

MEMBER SECRETARY

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Annexure 20 - Service Certificate of New Opacity meter

Service Certificate

Dated – 01.03.2026

Stack PM Analyser

Make – Envea

Model – PCME 602

We have visited and installed the PM ANALYSER at Ferro Briquette Plant and SMS lime Plant of AARTI STEEL LIMITED Ghantikhal ,Cuttack.

Person Present:

Environment – Mr.Bikash Barik

Instrumentation – Mr.Jaydipta Sethi, Mr. Sudhir Rout

Process – Mr.Arabind Pramanik, Mr.Quazi MD Fattahul Haque

Vendor – Envea India Pvt Ltd

Name – Ajit Kumar Mohanty

Mob - 9337013036

Envea India Pvt Ltd * Navi Mumbai *

Ajit Ku Mohanty
EXECUTIVE CSD

Surface Runoff Treatment System (SRTS)

Plant Details

Particular	Details
System Name	Surface Runoff Treatment System (SRTS)
Capacity	2 × 200 KLD
Location – 1	DRI & Power Plant
Location – 2	FAP & Briquetting Plant
Make	Sigur Greentech
Year of Installation	2025-26

1. PURPOSE

To establish a standardized procedure for operation, monitoring, maintenance, and utilization of the Surface Runoff Treatment System (SRTS) for effective treatment and reuse of surface runoff generated within the plant premises.

2. OBJECTIVE

- To collect and treat contaminated surface runoff water.
- To reduce suspended solids, oil & grease, and other pollutants.
- To ensure treated water complies with applicable environmental norms.
- To promote water conservation through reuse of treated water.

The system treats runoff generated from:

- Roads and paved surfaces
- Coal and raw material handling areas
- Yard drainage
- Open plant areas
- Equipment washing areas

3. PROCESS FLOW

Surface Runoff Collection
↓
Bar Screen Chamber
↓
O&G Trap
↓
Equalization Tank
↓
Aeration Tank
↓
Flash Mixing Tank
↓
Clarifier → Clarifier Sludge → Sludge Drying Bed
↓
Filter Feed Tank & Pump
↓
MGF
(Multi grade Filter)
↓
Treated Water Tank
↓
Reuse / Safe Discharge

4. EQUIPMENT DETAILS

Sl. No.	Equipment	Function
1	Bar Screen Chamber	Removes floating debris and coarse solids
2	Oil & Grease Trap	Separates oil, grease, and hydrocarbons
3	Equalization Tank	Balances flow and pollutant load
4	Aeration Tank	Provides aeration for oxidation and mixing
5	Flash Mixing Tank	Rapid mixing of chemicals/coagulants
6	Clarifier	Settles suspended solids and sludge
7	Filter Feed Tank & Pump	Transfers clarified water to filter
8	Multi grade Filter (MGF)	Removes fine suspended particles
9	Treated Water Tank	Stores treated water
10	Sludge Drying Bed	Dewatering and drying of sludge

4.1 EQUIPMENT DIMENSION

Sl	Tank	Dimension (m)			Volume (m^3)
		Length	Width	Depth	
1	Bar Screen Chamber	1.5	2.5	1.5	5.625
2	O&G Trap	1.5	2.5	1.8	6.75
3	Equalization Tank	6	4.5	3	81
4	Aeration Tank	3	4.5	3	40.5
5	Flash Mixing Chamber	2	2	3	12
6	Clarifier Tank	2.5 (radius)		3	60
7	Sludge Holding Tank	2	2.5	1.5	7.5
8	Filter Feed tank	3	4.5	3	40.5
9	Treated Water Tank	6	4.5	3	81
10	MGF	1.5	1.5	1.5	3.375

5. OPERATION PROCEDURE

5.1 Collection of Surface Runoff

- Surface runoff generated from the above said areas shall be collected through drains and channels.
- Ensure drain lines remain free from blockage mostly during monsoon periods.

5.2 Bar Screen Chamber Operation

- Runoff first enters the Bar screen chamber.
- Remove plastic, leaves, scrap particles, and coarse solids manually.
- Cleaning frequency:
    - Daily during monsoon
    - Weekly during dry season

5.3 Oil & Grease Trap

- Water flows into the O&G trap for separation of floating oil and grease.
- Accumulated oil shall be skimmed periodically.
- Collected oil shall be disposed of as per hazardous waste guidelines.

5.4 Equalization Tank

- Equalizes hydraulic load and pollutant concentration.
- Agitator/blower to remain operational during treatment.
- Maintain proper retention time.

5.5 Aeration Tank

- Aeration system shall be operated continuously during treatment process.
- Maintain dissolved oxygen (DO) level above 6 mg/L.
- Check blower condition and air distribution regularly.

5.6 Flash Mixing Tank

- Dose chemicals such as alum/lime/polymer as required.

- Ensure proper rapid mixing for coagulation.
- Monitor pH and dosing quantity.

5.7 Clarifier

- Settles flocculated suspended solids.
- Sludge accumulated at the bottom shall be drained once in every day/as and when require to sludge drying bed.

5.8 Filter Feed Tank & Pump

- Clarified water collected in filter feed tank.
- Pump water to MGF unit.
- Check pump pressure, leakage, and vibration.

5.9 Multi grade Filter (MGF)

- Removes fine suspended solids.
- Conduct periodic backwashing based on differential pressure drop.
- Ensure filter media condition is satisfactory.

5.10 Treated Water Tank

- Store treated water for reuse.
- Dust suppression
- Greenbelt watering
- Road sprinkling etc

Excess treated water, if any, may be discharged through designated drain after ensuring compliance with applicable norms.

6. SLUDGE MANAGEMENT

- Sludge generated from clarifier shall be transferred to sludge drying bed.
- Dried sludge shall be collected and disposed of as per applicable environmental guidelines.
- Maintain sludge handling records.

7. MAINTENANCE PROCEDURE

Table 7.1: Mechanical Maintenance

Sl. No.	Equipment Name	Quantity	Frequency
1	Agitator Pump	02	06 Months
2	Air Blower	04	06 Months
3	Clarifier inlet Pump	04	06 Months
4	Filter Feed Pump	04	06 Months
5	Dosing Pump	02	06 Months
6	Final outlet Pump	02	06 Months

Table 7.2: E&I Maintenance

Sl. No.	Equipment Name	Quantity	Frequency
1	Agitator motor	02	06 Months
2	Air Blower motor	04	06 Months
3	Clarifier inlet motor	04	06 Months
4	Filter Feed motor	04	06 Months
5	Dosing motor	02	06 Months
6	Final outlet motor	02	06 Months
7	Control Panel	02	06 Months

Table 7.3: Checklist

Sl. No.	Equipment	Frequency	Maintenance Activity
1	Bar Screen Chamber	Weekly	Cleaning of screens
2	O&G Trap	Weekly	Oil skimming and sludge removal
3	Equalization Tank	Monthly	Cleaning and agitator inspection
4	Aeration Tank	Weekly	Blower and diffuser inspection
5	Flash Mixing Tank	Weekly	Mixer and dosing line inspection
6	Clarifier	Monthly	Sludge removal and cleaning
7	Pumps	Weekly	Lubrication and leak inspection
8	MGF	Weekly	Backwashing
9	Treated Water Tank	Monthly	Cleaning and inspection
10	Sludge Drying Bed	As required	Sludge removal

8. MONITORING PARAMETERS

Parameter	Frequency
pH	Weekly
TSS	Weekly
Oil & Grease	Weekly
COD	Weekly
Flow Rate	Daily
DO (Aeration Tank)	Weekly

9. SAFETY PRECAUTIONS

- Use PPE during operation and sludge handling.
- Avoid direct contact with chemicals.
- Ensure electrical panels remain dry and properly insulated.
- Proper housekeeping to be maintained around treatment units.

10. RECORD KEEPING

Maintain records for:

- Daily operation log
- Water quality analysis
- Maintenance activities

11. RESPONSIBILITY

Department	Responsibility
Environment Department	Monitoring and compliance
Utility/Operation Team	System operation
Maintenance Department	Preventive and breakdown maintenance
Safety Department	Safety compliance

----------END----------

(SRTS – 1: DRI & Power Plant)

(SRTS – 2: FAP & Briquetting Plant)

TEST REPORT

Date:08.10.2025

Name of the Industry	**Aarti Steels Limited Ghantikhal, PO- Mahakalbasta, Vill – Aathaghar, Cuttack , Odosha**	Date of Sampling	06.10.2025
		Sample Received on	06.10.2025
Sample Description	Waste Water (Inlet)	Sampling Procedure	VCSPL/SOP/003, Dt. 01.08.2019
Sample Identification Code	VCSPL/ENV/071025/017	Sampling Location	**DRI Site Inlet (SRTS 200 KLD)**
Sample Condition	Sealed	Sampling done by	VCSPL Representative
Test Started on	08.10.2025	Test Completed on	08.10.2025

1. Chemical Testing

A. Pollution& Environment

Sl. No.	Parameters	Unit	Testing Methods	The Environment (protection) Act, 1986. General Standard for Discharge of Environmental Pollutions(Inland Surface Water)	Results
1	pH Value (at 25^{0}C)	-	APHA 23 rd Edition 4500 H+B: 2017	-	8.25
2	Total Suspended Solids (at 103^{0}C)	mg/l	IS 3025 (Part –17) 2022	-	510
3	Oil & Grease	mg/l	IS 3025 (Part –39) 2021	-	BLQ (<5.0)

BLQ= Below Limit of Quantification

TERMS AND CONDITION:-

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5. *The laboratory's responsibility under this report is limited to; proven willful negligence*

*** End Report***

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Reviewed by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Approved by

TEST REPORT

Date:08.10.2025

Name of the Industry	**Aarti Steels Limited Ghantikhal, PO- Mahakalbasta, Vill – Aathaghar, Cuttack , Odosha**	Date of Sampling	06.10.2025
		Sample Received on	06.10.2025
Sample Description	Waste Water (Outlet)	Sampling Procedure	VCSPL/SOP/003, Dt. 01.08.2019
Sample Identification Code	VCSPL/ENV/071025/018	Sampling Location	**DRI Site Outlet (SRTS 200 KLD)**
Sample Condition	Sealed	Sampling done by	VCSPL Representative
Test Started on	08.10.2025	Test Completed on	08.10.2025

1. Chemical Testing

A. Pollution& Environment

Sl. No.	Parameters	Unit	Testing Methods	The Environment (protection) Act, 1986. General Standard for Discharge of Environmental Pollutions(Inland Surface Water)	Results
1	pH Value (at 25°C)	-	APHA 23 rd Edition 4500 H+B: 2017	5.5-9.0	8.36
2	Total Suspended Solids (at 103°C)	mg/l	IS 3025 (Part –17) 2022	Max 100	22.0
3	Oil & Grease	mg/l	IS 3025 (Part –39) 2021	Max 10	BLQ (<5.0)

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*** End Report***

Reviewed by

Approved by

TEST REPORT

Date:08.10.2025

Name of the Industry	**Aarti Steels Limited Ghantikhal, PO- Mahakalbasta, Vill – Aathaghar, Cuttack , Odosha**	Date of Sampling	06.10.2025
		Sample Received on	06.10.2025
Sample Description	Waste Water (Inlet)	Sampling Procedure	VCSPL/SOP/003, Dt. 01.08.2019
Sample Identification Code	VCSPL/ENV/071025/019	Sampling Location	**FAP Site Inlet (SRTS 200 KLD)**
Sample Condition	Sealed	Sampling done by	VCSPL Representative
Test Started on	08.10.2025	Test Completed on	08.10.2025

1. Chemical Testing

A. Pollution& Environment

Sl. No.	Parameters	Unit	Testing Methods	The Environment (protection) Act, 1986. General Standard for Discharge of Environmental Pollutions(Inland Surface Water)	Results
1	pH Value (at 25^{0}C)	-	APHA 23 rd Edition 4500 H+B: 2017	-	7.49
2	Total Suspended Solids (at 103^{0}C)	mg/l	IS 3025 (Part –17) 2022	-	54.0
3	Oil & Grease	mg/l	IS 3025 (Part –39) 2021	-	BLQ (<5.0)

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TEST REPORT

Date:08.10.2025

Name of the Industry	**Aarti Steels Limited Ghantikhal, PO- Mahakalbasta, Vill – Aathaghar, Cuttack , Odosha**	Date of Sampling	06.10.2025
		Sample Received on	06.10.2025
Sample Description	Waste Water (Outlet)	Sampling Procedure	VCSPL/SOP/003, Dt. 01.08.2019
Sample Identification Code	VCSPL/ENV/071025/020	Sampling Location	**FAP Site Outlet (SRTS 200 KLD)**
Sample Condition	Sealed	Sampling done by	VCSPL Representative
Test Started on	08.10.2025	Test Completed on	08.10.2025

1. Chemical Testing

A. Pollution& Environment

Sl. No.	Parameters	Unit	Testing Methods	The Environment (protection) Act, 1986. General Standard for Discharge of Environmental Pollutions(Inland Surface Water)	Results
1	pH Value (at 25^{0}C)	-	APHA 23 rd Edition 4500 H+B: 2017	5.5-9.0	7.82
2	Total Suspended Solids (at 103^{0}C)	mg/l	IS 3025 (Part –17) 2022	Max 100	12.0
3	Oil & Grease	mg/l	IS 3025 (Part –39) 2021	Max 10	BLQ (<5.0)

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