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ISO 45001:2018 and
IATF 16949:2016 Certified Company

AARTI STEELS LIMITED

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Ref:ASL/EC-2005/Env./77358

Date: 25th May 2025

To

The Additional Deputy Director General of Forests(C),
Government of India, Ministry of Environment & Forests,
Eastern Regional Office, A/3, Chandrasekharapur,
Bhubaneswar – 751023, Fax: 0674-2302432.
E-mail:roez.bsr-mef@nic.in

Sub: Submission of Half-yearly Compliance report on the stipulated Environmental Clearance accorded by the Ministry to the project “0.5 MTPA Integrated Steel Plant and 50 MW CPP by Aarti Steels Limited at village Ghantikhal in dist. Cuttack in Odisha- reg.”

Ref: Environmental Clearance letter no. J.11011/158/2004-IAII (I) dated 16.02.2005.

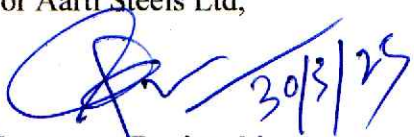
Respected Sir,

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 Fill No: **J.11011/158/2004-IAII (I)** dated **16.02.2005** in respect of Integrated Steel Plant, Cuttack Odisha of Aarti Steels Limited for the Period from **October-2024 to March-2025**.

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

Thanks & Regards,

For Aarti Steels Ltd,


Ganeswar Panigrahi
(Factory Manager)

Encl: As above

Copy to: The Director,

IA Division(Industry),

Ministry of Environment,Forest and Climate Change,Indira Paryavaran

Bhawan,Jor Bagh Road,Aliganj,New Delhi-110003

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The Regional Director,

The Central Pollution Control Board,
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E-mail: mkbiswas.cpcb@nic.in

The Regional Officer,

Regional Office, State Pollution Control Board,
586, Suryavihar, Link Road, Cuttack-753012 (Odisha),
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-for favour of kind information and doing the needful please



Half-Yearly Compliance Report

on

Environmental Clearance Conditions

(MoEF File no: J.11011/158/2004-IAII (I) dated 16.02.2005)

Period: October'24 to March'25

Submitted by:

AARTI STEELS LIMITED,
At- Ghantikhal, Cuttack, Odisha

Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2005) granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for October'24 to March'25

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Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2005) granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for October'24 to March'25

Sl. No.	Specific Conditions	Compliance Status (October'24 to March'25)
A (i)	The gaseous emissions from various process units should confirm to the load/mass-based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board 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 should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.	<u>Complied</u> The gaseous emissions (Particulate Matter) from various process units i.e. stack attached to AFBC Boiler, CFBC Boiler, WHR Boilers, DRI units, SMS unit, Rolling Mill and Ferro Alloys unit are being monitored regularly (stack monitoring reports are enclosed for reference - Annexure 4). It can be observed from the reports that the units mentioned above confirm to the concentration based standards notified by the Ministry i.e. 150 mg/Nm³. We would like to inform that as per the OSPCB consent conditions we are maintaining the particulate emission from the above mentioned process units below 100 mg/Nm³ except thermal power plants (AFBC and CFBC) for which prescribed standard is 50 mg/Nm³ which can be referred from the enclosed stack monitoring reports. However, Mass/Load based standard notified by the ministry for integrated steel plant is not applicable in our case, as we do not have Coke Oven plant right now. Hence, we request you to recommend to waive out this specific condition for our case. At no time the emission level goes beyond the prescribed standards as the installed pollution control devices i.e. ESPs and Bag Filters are designed to ensure emission level below the prescribed standards. (fig. 1- Stack, ESP and Bagfilters) In the event of failure of any pollution control system adopted by the unit, the pollution control system is being rectified to achieve the desired efficiency first and then only we are restarting the respective unit.
(ii)	There should be no discharge of process effluent. As reflected in the EIA/EMP report, the waste generation of 456 m³/d (384m³/d of process and 72 m³/d of domestic effluent) from the various sources will be generated. The company shall achieve zero discharge by use of treated effluent in the process. The blow down from the cooling tower, coolers and RO plant shall be utilized for ash slurry after neutralization and overflow from ash slurry shall be recycled.	<u>Complied</u> We strictly follow ZLD (Zero Liquid Discharge) concept for the plant, the CT blow-down along with all other primary treated wastewater used for ash moistening, slag granulation, slag quenching, sprinkling on road and plantation and greenbelt development purpose as the existing practice (Water Balance diagram is enclosed for reference as - Annexure 2). The detailed water management carried out in all the process units is furnished below. - POWER PLANT: Full utilization of Blow down by recycling & reuse by Treating the Water in DM Plant. We are not discharging any process effluent. The blow down water from cooling tower, Boiler, coolers and RO plant after treatment in neutralization pit is collected in waste water sump and the same is reused in the Process. Surface run-off/spillage/plant washing water from power plant are being recycled through DM Plant. Thus, the company achieves zero discharge by using treated effluent in the process. SPONGE IRON PLANT: Sponge Iron unit utilizes water

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	There shall be no discharge of water from the Coal Washery and company shall adopt closed circuit system. The domestic waste water after treatment in STP should be used for green belt development.	only for cooling purpose. Hot water generated from the rotary cooler get 100 percent recycled onto cooling process through cooling tower. SMS: The unit has been provided with cooling cum re-cycle arrangements for the cooling waste water of EAF as well LRFS. The effluent is confined within the system hence discharge from the SMS is not envisaged. FAP: The unit has provided with recycling arrangements for the cooling waste water of SAF and surface run-off/effluent of Jigging and briquetting facility. Thus the company achieves zero discharge by using treated effluent in the process. Rolling Mill: The unit has been provided with cooling cum re-cycle arrangements for the cooling waste water of Rolling Mill. The effluent is confined within the system hence discharge from the mill is not envisaged. -COAL WASHERY: Coal Washery operations ceased in 2013 and the CHP is currently operational. So, no provision of waste water in CHP. 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 dust suppression/green belt development. (fig 2: All STPs)
(iii)	In plant control measures for checking fugitive emission from spillage of raw materials handling should be provided.	<u>Complied</u> Fugitive emission generation points like various stock house, material transfer and junction points, product hoppers have been provided with appropriate suction device connected to bag filter.(Fugitive emission reports enclosed as Annexure 3) Dust suppression system for raw material handling area has already been provided. All transfer points of belt conveyor have been provided with spray nozzles for suppressing the dust. All conveyors, transfer points etc has been provided with enclosures. Water spraying arrangement has been provided in coal yard, iron yard, truck tippler. We have already installed sprinklers for Coal and Iron Stock Yard. In addition to above, -Regular water Spraying and cleaning is being practiced on the internal roads. All major internal roads of approx. 6.7 KM length have already been blacktopped.  (Figure 6: Water Sprinkler - Iron Ore Yard)

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		-We have installed sprinklers for dust suppression at Coal and Iron Yard area for dust suppression. -We have provided sprinkler system in DRI unit, Iron Ore Crushing unit for dust suppression. -Water Spraying arrangement using 3x12 KL tanker is being made during non-monsoon period for Dust Suppression along the internal roads, Coal Stack yard, Railway Siding area and other areas for effective dust control. Also manual water spraying arrangement using water hose has been made for dust control.  (Figure 7: Water Tanker) -We have already installed sprinklers in FAP unit. -Adequate dust handling system at the hoppers of CFBC (ESP), AFBC ESP, WHRB ESPs and DRI Bag Filters has already been installed and operating satisfactorily. Collected dust/ash in silos is being disposed off to cement plants/abandoned quarry pits. (fig. 1: ESP and Bagfilters) - The solid waste generated is being suitably disposed off within the premises without creating any dust nuisance or environmental contamination. -Material transportation through trucks, tippers etc is being carried out in covered condition to avoid spillages and dust emission. However, in order to improve the AAQ in and around our plant premises, further, we have installed two nos of Bag Filters (Cap:85000m³/hr and 33,200 m³/hr) for Capacity enhancement of existing bag filters of 2x500 TPD DRI Kiln as per recommendation of M/s IIT, Kharagpur to control fugitive emission. Also, we have installed Dust Extraction system (DES) connected to bag filter for secondary emission control system connected to Bag Filter to control fugitive emission from SMS during charging and the system is working
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	The project authorities shall ensure the control of secondary fugitive emissions from the electric arc furnace/induction furnace during charging of scrap and tapping by provision of canopy hood over the furnaces and undertaking engineering modifications as has been done in the existing unit at Ludhiana. Fugitive emissions from continuous casting of molten metal into various products shall be controlled by installation of adequate fume extraction system. Further specific measures like provision of dedusting system, bag filters; water-spraying system to suppress the dust at transfer points shall be taken.	satisfactorily. (fig. 6: DRI Bagfilters)  (fig. 8: DRI New Bagfilters - Cap:85,000m3/hr)  (figure 8: DRI New Bagfilters - Cap: 33,200 m3/hr) <u>Complied</u> Swiveling canopy hood over the furnace was provided. The furnace gas was cooled by the provision of dilution air addition in duct and is being cleaned through bag filter and is discharged to atmosphere through a stack of height of 35 meter at a temperature of 100°C and at a particulate matter concentration below 100mg/Nm³. However, now company has opted steel making through DR-EAF route in place of DR-IF route and hence induction furnaces are not in operation now and has been dismantled since May,2009. We have installed Dust Extraction system (DES) connected to bag filter for secondary emission control system connected to Bag Filter to control fugitive emission from SMS plant during charging and the fumes after treatment in bag filter is being discharged to atmosphere through a stack height of 35 meter and at a particulate matter concentration below 100mg/Nm³ Fumes coming out from EAF at around 1200 °C is diluted and cooled in water cooled duct, gas cooler and mixing chamber to 120°C before entry to baghouse for cleaning. Swiveling canopy hood over the ladle refining furnaces (2 sets) has been
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	Data on fugitive emissions should be regularly monitored and records maintained.	provided. The furnace gas is passed through mixing chamber. The fumes of EAF and LRFs after passing through common mixing chamber at a temp. of about 120 °C is cleaned in a common bag filter and discharged to atmosphere through a common stack of height of 40 meter and at a particulate matter concentration below 100 mg/Nm³. (fig. 5: Conveyor Belt Canopy Hood) Data on fugitive emission monitoring is enclosed at (Annexure 3) for reference.
(iv)	The company shall use the heat recovered from the DRI plant in waste heat recovery boilers. The particular emissions from the DRI plant and waste heat recovery boiler shall be controlled by installation of ESP and particulate emissions shall not exceed 100 mg /Nm³. Further, the company should install dust catchers and gas-cleaning plant for blast furnace top gas for subsequent use in stove heating, re-heating furnace and ladle heating etc. The flue gas should be discharged through stack of appropriate height.	<u>Complied</u> 2x10 MW Waste heat recovery boilers (WHRB) have been installed for recovering sensible heat of waste gas coming out of 2x500 TPD DRI kilns at around 950-1000 °C with an inlet dust load of 2x30g/Nm³. Two no ESP (one per each boiler) has been installed to control the particulate emission below 100 mg/Nm³ and brings the flue gas temperature down to 180° C temperature and finally the flue gas is directed through a chimney of appropriate height to atmosphere.  (figure 9: Waste Heat Recovery Boilers) Shall be Complied along with the installation of blast furnace. Blast Furnace has not been installed yet.
(v)	Pressure drop measuring system across the bag filters should be installed. Particulate matter emissions should be measured hourly besides continuous monitoring.	<u>Complied</u> As per OSPCB direction, we have already installed 4 nos online continuous ambient air quality monitoring stations (MOEF approved methodology and USEPA approved equipment) for measuring the parameters such as PM₁₀, PM_{2.5}, SO₂, NO_x, CO and online continuous stack emission monitoring system for all power plant ESP stacks for measuring the parameters such as PM, SO₂, NO_x and GCP(bag filter) stacks for measuring the parameters such as PM. Further, we have installed RT-DAS for AAQ and Stacks and uploaded real time data to the OSPCB and CPCB server through M/s Phoenix Robotics, Rourkela and M/s ENVEA India Private Limited, Thane respectively. For remaining parameters and for on line system calibration purpose we are carrying out Env. monitoring and Analysis through M/s Mitra S.K.Private Limited (NABL and MoEF authorized laboratory and OSPCB em-paneled consultant). Monitoring Reports attached as (Annexure 4).

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(vi)	Proper acoustic enclosures should be installed to control noise load from the DG sets as per EPA standards.	<u>Complied</u> DG sets have been housed in enclosed room. The noise load from DG set is within the prescribed norm as per EPA standard of 85dB (A). Also the persons working are not being affected due to the noise load of DG sets as it runs only in case of power failure for which persons are exposed to the DG set for very short duration with ear muff.
(vii)	Company should keep proper housekeeping within the plant premises.	<u>Complied</u> Proper House Keeping within the plant premises is being carried out. Continuous efforts are being made to improve it further. Inspection for improvement in House Keeping is being done. Dedicated team has been constituted in all the units to maintain proper house keeping.  (figure 10: Housekeeping)
(viii)	The company shall prepare time bound action plan for solid waste management and submit to the Ministry within three months.	<u>Complied</u> We have taken the following measures to reduce solid waste generation, its proper utilization and disposal: - Adequate pneumatic dust handling system at the hoppers of CFBC (ESP), AFBC (ESP), WHRB (ESPs) and DRI Bag Filters have already been installed and operating satisfactorily. -Installed adequate pneumatic dust collection system at bag filter attached to EAF and LRF followed by pug mill. -Collected dust from FAP Bag Filter is being utilized for Briquette making. -Dust and Solid waste removal being carried out on regular basis by using loader, tractor/tipper etc. (fig. 1: ESP and Bagfilters) - The solid waste generated is being suitably disposed off within the premises without creating any dust nuisance or environmental contamination. In addition to above, we have taken the following measures to further reduce solid waste generation, its proper utilization and disposal: -Constructed a new coal screening building for screening of coal fines of 4 mm and routing the same to boiler. - Char generated is being utilized in AFBC and CFBC power plant. The kiln accretion is being dumped in allocated solid waste disposal area of our plant. DM resin from process is being disposed-off in impervious lined pit with cover. Used oil is being sold to regd. Recyclers/re-refiners only. Constructed used oil storage shed with concrete platform for storage of used oil (a hazardous waste). Constructed bio-

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		medical waste disposal pit for disposal of our First Aid Centre bio-medical waste. Also provided organic waste converter for conversion of canteen waste into fertilizer. The same is being utilized in green belt development. -Utilizing -1 mm microfines of coal in our CFBC Boiler. -Installed briquette plant for briquette making utilizing bag filter chrome dust. -DRI Bag filter dust is being utilized in Kiln firing. -Installed Jigging plant for recovery of ferro alloys from its slag. Utilizing H.C. Ferro Chrome Slag as replacement aggregates for non-critical construction jobs since Sept., 2011 to the maximum and the rest is being utilized for land filling/road making etc. inside our plant premises. Solid waste Management Report attached as Annexure 5.  (figure 11: Jigging Plant) <u>Infrastructure and Mechanism:</u> The allocated solid waste area is situated at considerable distance from operational /working zone and a green belt already exists around it to prevent propagation of air borne dust from the dumping site. Dust and solid waste removal is being carried out on regular basis by using Pay Loader, Tractor, Tipper, JCB, Hyva etc. and is being disposed off in the allocated area following progressive solid wastes disposal practice. Leveling and compressing is being done from time to time with dozer to create more space for fresh solid wastes. Water spraying arrangement using tanker has been made periodically for Dust Suppression at the designated disposal site. Solid wastes generated are being immediately shifted to designated disposal site to prevent air and water pollution. We are not shifting/transporting /disposing solid wastes from our premises in any public place. (figure 10: Solid Waste Yard) <u>Fly Ash Management:</u> We have achieved 100 percent utilization during 2024-25 by supplying to Brick Plants & Cement Plant. Fly-ash utilization report attached as Annexure 6.
(ix)	A green belt shall be developed in an area of 100 ha. of plant area as per the CPCB guidelines.	<u>Complied</u> Aarti Steels Limited has undertaken a laudable venture to turn this rocky surface to a beautiful landscape full of trees and greenery. Up till now over 266820 nos of trees have been planted in planned way to cover the sprawling factory

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		premises for ecological balance covering an area of 35.4 Ha 2500 nos of trees per Ha . Out of 315.1 Ha of our total plant area approx. 111.5 Ha with 266820 trees already covered under thick plantation since beginning of the project. We are also taking the maintenance of these existing plantations. As per OSPCB direction we have planted 1250 nos of saplings in near by villages in 2014 and distributed around 45000 nos sapling in periphery villages in 2015. Also, ASL distributed 25000 nos of saplings in periphery villages in July 2016. Green belt report is enclosed vide Annexure 7 .
(x)	The company should undertake rainwater-harvesting measures to harvest the rainwater for utilization in the lean season as well as to recharge the ground water table.	<u>Complied</u> In consultation with IIT, Kharagpur, we have already constructed surface run-off rain water harvesting pit of size (83mx73mx5m) for surface run off and rain water storage. Installation of Pumps, Pipelines etc for transporting the stored water to raw water reservoir for recycling has been completed in July-2012 and the system is operating satisfactorily.  (figure 12: Rain Water Harvesting Pit)
(xi)	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	<u>Complied</u> Occupational Health Surveillance of the workers is being done once in a year and records are maintained as per the Factories Act.
(xii)	Recommendations made in the CREP should be implemented.	<u>Complied</u> The CREP recommendation already implemented.
Sl	General Conditions	Compliance Status (October'24 to March'25)
B (i)	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board and the State Government.	Accepted.
(ii)	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	Accepted.
(iii)	At least four ambient air quality-monitoring stations should 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 State Pollution Control Board / Central Pollution Control Board once in six months. Data on ambient air quality and stack emission should	<u>Complied</u> Four on-line ambient air quality-monitoring stations has already been established in downward direction as well as where maximum ground level concentration of PM₁₀, PM_{2.5}, SO₂ and NO_x are anticipated in consultation with the Odisha State Pollution Control Board. Data on ambient air quality monitored for the parameters

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	be submitted to this ministry including its regional office at Bhubaneswar and the SPCB/CPCB once in six months.	PM ₁₀ , PM _{2.5} , SO ₂ and NO _x , CO and Data on Stack air quality monitored for the parameters PM, SO ₂ , NO _x , temperature and velocity for running plants is being submitted once in six months. (fig. 4: AAQMS Station)
(iv)	Industrial waste water should be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater should be utilized for plantation purpose.	<u>Complied</u> Since the Industrial waste water is not being discharged outside and is being utilized inside our plant as detailed above in point no.(ii) of specific conditions, hence the standards prescribed under GSR 422(E) dated 19 th May,1993 and 31 st December,1993 or as amended from time to time is not applicable to our case.
(v)	The overall noise levels in and around the plant area should 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 should conform to the standards prescribed EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time)	<u>Complied</u> The overall noise levels in and around the plant area is being kept well within the prescribed standards (85 dBA) by providing adequate noise control measures including acoustic hoods, silencers, enclosures as applicable etc. on all sources of noise generation. The overall noise levels in and around the plant area is being monitored once in a month The noise monitoring reports are enclosed for reference which shows that the noise level is well within the standards of 85dB (A) for noise generating sources also it can be noted from the report that the ambient noise levels also conform to the standards prescribed in EPA Rules, 1989 viz.75dB (A)(day time) and 70 dB(A) (night time). Noise monitoring report attached as Annexure 8 .
(vi)	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.	<u>Complied</u> All the environment protection measures and safeguards recommended in the EIA/EMP report are being complied in a phased manner. Social infrastructure and peripheral development work report done so far has been attached vide Annexure 9 . Further regarding health care- regular health checkup of local people of Dhurusia, Mahakalabasta, Ghantikhal and Kakhadi villages are being carried out by our company Doctor and Pharmacist using mobile health van.
(vii)	The project authorities shall earmark an amount of Rs. 40 Crores (as indicated in question no. XIX (b) of the questionnaire submitted to the Ministry to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	<u>Complied</u> Please refer Annexure 10 for financial provision of 40 Crores for the implementation of the EMP. We abide that the funds so provided shall not be diverted for any other purpose. Expenditure Incurred on Environmental Protection Measures till 31.03.2025 by Aarti Steels Limited, Ghantikhal is enclosed vide Annexure 10 .
(viii)	The Regional Office of this Ministry at Bhubaneswar/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	<u>Complied</u> The stipulated conditions are being monitored by the Regional Office of the Ministry at Bhubaneswar/Central Pollution Control Board/State Pollution Control Board. A six-monthly compliance report and the monitored data along with statistical interpretation are being submitted to them regularly.

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(ix)	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/Committee any may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should 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 should be forwarded to the Regional office.	<u>Complied</u> Already Complied (copy of the advertisement is enclosed as Annexure 12 for reference).
(x)	The Project Authorities should 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.	Date of financial closure of the project: March, 2004. Date of Final approval of the project: February, 2005 Date of commencing the land development work: Sept., 2004.
(xi)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Accepted.
(xii)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Accepted.
(xiii)	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 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Accepted.



G. Panigrahi
(Factory Manager)
Aarti Steels Limited

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Figure 1 (Stack, ESP and Bag Filter)



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DRI Stack-1



DRI Stack-2



Rolling mill



FAP



SMS-1

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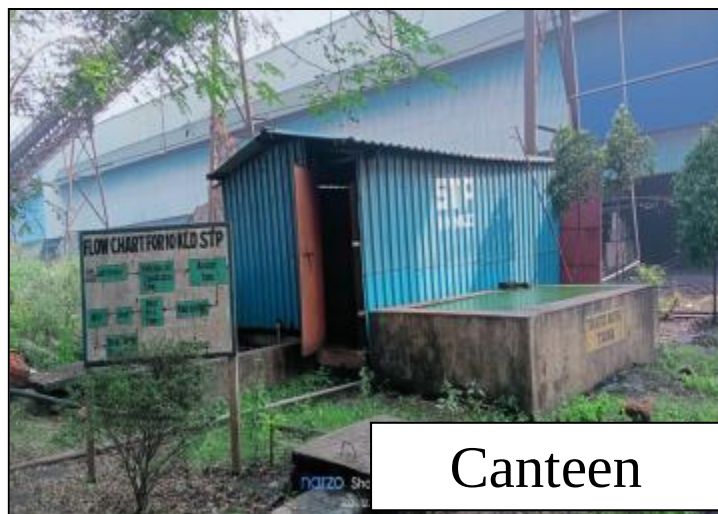
Figure 2 (STP Details)



Staff Colony



Bachelor Colony



Canteen



Rolling Mill

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Figure 3: (Solid Waste Yard)

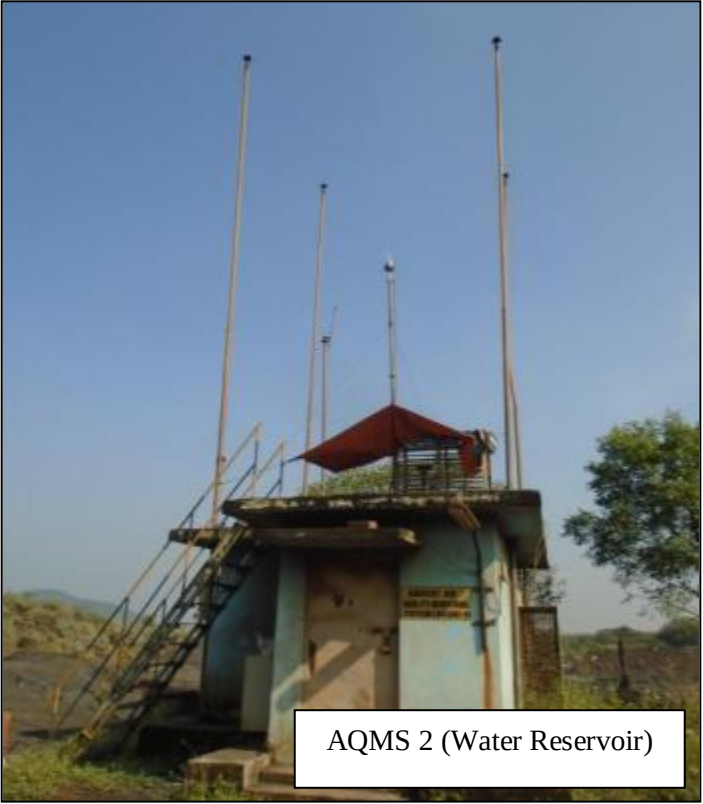


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Figure 4: (AAQMS Station)



AQMS 3 (Guest House)



AQMS 2 (Water Reservoir)



AQMS 1 (Bachelor Colony)



AQMS 4 (Ferro Alloy)

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Figure 5: (Conveyor Belt Canopy Hood)



CHP



DRI



Power Plant



FAP

Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2005) granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for October'24 to March'25

Figure 6: (Internal Road)



Way to SMS



Rolling Mill



Way to FAP



Way to Admin Building



Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2005) granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for October'24 to March'25

Way to CHP 	Way to Guest House 
Way to Power Plant 	Guest House to Main Gate 
Way to DRI	Way to Main-Gate

Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2005) granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for October'24 to March'25



(Figure 6: Water Sprinkler - Iron Ore Yard)

Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2005) granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for October'24 to March'25



(Figure 7: Water Tanker)



(fig. 8: DRI New Bagfilters - Cap:85,000m³/hr)



(figure 8: DRI New Bagfilters - Cap:33,200 m³/hr)

Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2005) granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for October'24 to March'25



(figure 9: Waste Heat Recovery Boilers)



(figure 10: Housekeeping)



(figure 11: Jigging Plant)

Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2005) granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for October'24 to March'25



(figure 12: Rain Water Harvesting Pit

**Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance
(2005) granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for
October'24 to March'25**

Annexure-01

Annexure-I

PHASE-WISE DEVELOPMENT OF PROJECT AND PROGRESS ON THE CONSTRUCTION OF THE PROJECT

Product Portfolio (proposed capacities)	Item	Capacity	Status	Target
	<u>Phase-1A</u>		All the facilities Are completed and in operation.	
	Coal Washery	1.0 MTPA		
	Sponge Iron Kiln-1	500 TPD - 1 No.		
	Captive Power plant	40 MW - 1 No.		
	Ladle Refining Furnace	26 T - 2 Nos.		
	Billet Caster	2 Strand - 7/14 radius - 1 No		
	2 x 9 MVA Ferro-Alloys Plant	25000 TPA		
	<u>Phase-1B</u>		Yet to be started	
	Electric Arc Furnace-1, V.D.	35 Ton		
	Sponge Iron Kiln-2 & WHRB-2	500 TPD & 10 MW		
	Electric Arc Furnace-2	35 Ton		By March,2025
	<u>Phase-II</u>			
	Mini Blast Furnace	350 M3		By March,2025
	Bloom Caster	2 Strand - 1 No.		By March,2025
	Billet Caster	2 Strand - 1 No.		By March,2025
	AOD	35 T - 1 No.		By March,2025
	LRF	35 T - 1 No.		By March,2025
	Bar & Rod Mill	500000 T/Yr.		200000 TPY installed. Balance 3,00,000 TPA by March,2025
	Wagon Tippler			By March,2025
	Wire Drawing Unit			By March,2025

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

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

M/s. Aarti Steels Limited
AT CHANDAN KHAL
P.O. CHANDAN KHAL
Via Allagadda, Chittoor

M/s. Aarti Steels Limited
AT CHANDAN KHAL
P.O. CHANDAN KHAL
Via Allagadda, Chittoor



Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
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TEST REPORT

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

Report No. : BBS/509
Date : 28.06.2024
Sample No. : MSKGL/ED/2024-25/05/00870
Sample Description : Fugitive Air

Analysis Result of Fugitive Air

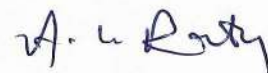
Sl. No	Sampling Location	Date of Sampling	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$
1.	Ferro Alloy Plant (FAP)	22.05.2024	1348.0
2.	Briquette Plant	22.05.2024	1780.0

Note-1.(Standard as per Environment (protection) (4th amendment) Rules-2008 by MoEF-2000 $\mu\text{g}/\text{m}^3$, at adistance of 10mtrs from the source.)

Report Prepared by: 

For Mitra S. K. Private Limited




Authorized Signatory

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TEST REPORT

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

Report No. : BBS/307
Date : 16.07.2024
Sample No. : MSKGL/ED/2024-25/06/01052
Sample Description : Fugitive Air

Analysis Result of Fugitive Air

Sl. No	Sampling Location	Date of Sampling	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$
1.	Railway Siding	14.06.2024	1660
2.	Coal Handling Plant	14.06.2024	1890

Note-1.(Standard as per Environment (protection) (4th amendment) Rules-2008 by MoEF-2000 $\mu\text{g}/\text{m}^3$, at adistance of 10mtrs from the source.)

Report Prepared by:



For Mitra S. K. Private Limited



Authorized Signatory

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TEST REPORT

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

Report No. : BBS/211
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/01052
Sample Description : Fugitive Air

Analysis Result of Fugitive Air

Sl. No	Sampling Location	Date of Sampling	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$
1.	Magnetic Separation Area	31.07.2024	1570
2.	Crusher Screen Area	31.07.2024	1710

Note-1.(Standard as per Environment (protection) (4th amendment) Rules-2008 by MoEF-2000 $\mu\text{g}/\text{m}^3$, at adistance of 10mtrs from the source.)

Report Prepared by: 



For 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/306
Date : 07.09.2024
Sample No. : MSKGL/ED/2024-25/08/01066
Sample Description : Fugitive Air

Analysis Result of Fugitive Air

Sl. No	Sampling Location	Date of Sampling	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$
1.	CDA Oversize Discharge Area	08.08.2024	1180.0
2.	Rolling Mill Furnace Area	08.08.2024	1590.0
3.	Rolling Mill BD Area	08.08.2024	1740.0

Note-1.(Standard as per Environment (protection) (4th amendment) Rules-2008 by MoEF-2000 $\mu\text{g}/\text{m}^3$, at adistance of 10mtrs from the source.)

Report Prepared by:



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TEST REPORT

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

Report No. : BBS/206
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/01066
Sample Description : Fugitive Air

Analysis Result of Fugitive Air

Sl. No	Sampling Location	Date of Sampling	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$
1.	RMHS Transfer Area	14.09.2024	1872.0
2.	Iron-Ore Crusher	14.09.2024	1700.0

Note-1.(Standard as per Environment (protection) (4th amendment) Rules-2008 by MoEF-2000 μ g/m³, at adistance of 10mtrs from the source.)

Report Prepared by: 



For Mitra S. K. Private Limited


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/507
Date : 28.06.2024
Sample No. : MSKGL/ED/2024-25/05/01194
Sample Description : Flue Gas Monitoring
Date of Sampling : 22.05.2024
Time of Sampling : 12:15 PM.

ANALYSIS RESULT

A . <u>General information about stack :</u>			
1.	Stack connected to	SMS - Primary Stack	
2.	Emission due to	Fumes Due to Melting of Iron	
3.	Material of construction of stack	M.S.	
4.	Shape of Stack	Circular	
5.	Whether stack is provided with permanent platform & ladder	Yes	
B . <u>Physical characteristics of stack :</u>			
1.	Height of the Stack from Ground level	28 m	
2.	Diameter of the Stack at Sampling point	1.92 m	
3.	Height of the Sampling Point from Ground Level	19 m	
4.	Area of stack	2.895 m ²	
C. <u>Analysis/Characteristic of stack:</u>			
1.	Fuel used : NA	2. Fuel Consumption : NA	
D . <u>Results of sampling & analysis of gaseous emission</u>		<u>Result</u>	<u>Prescribed standard as per CTO</u>
			<u>Method</u>
1.	Temperature of Emission (°C)	86	IS 11255(Part-III)
2.	Barometric pressure (mm of Hg)	752	Lab Method
3.	Velocity of gas (m/sec.)	4.51	IS 11255(Part-III)
4.	Quantity of Gas Flow (Nm ³ /hr)	75197	IS 11255(Part-III)
5.	Concentration of Carbon Dioxide (% v/v)	5.1	IS 13270:1992
6.	Concentration of Oxygen (% v/v)	15.4	IS 13270:1992
7.	Concentration of Carbon Monoxide (% v/v)	<0.2	1 % IS 13270:1992
8.	Concentration of Sulphur Dioxide (mg/Nm ³)	<5.0	IS 11255 (Part II)
9.	Concentration of Nitrogen Dioxide (mg/Nm ³)	<10.0	IS 11255 (Part 7),2005
10.	Concentration of Particulate Matters (mg/Nm ³)	82.1	100 IS 11255(Part-I)
E . <u>Pollution control device</u>			
Details of pollution control devices attached with the stack : Bag Filter			

Report Prepared by:



For Mitra S. K. Private Limited

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/508
Date : 28.06.2024
Sample No.: MSKGL/ED/2024-25/05/01195
Sample Description : Flue Gas Monitoring
Date of Sampling : 22.05.2024
Time of Sampling : 01:05 PM.

ANALYSIS RESULT

A . <u>General information about stack:</u>			
1.	Stack connected to	SMS-Secondary Stack	
2 .	Emission due to	Fumes Due to Melting of Iron	
3 .	Material of construction of stack	M.S.	
4 .	Shape of Stack	Circular	
5 .	Whether stack is provided with permanent platform & ladder	Yes	
B . <u>Physical characteristics of stack :</u>			
1.	Height of the Stack from Ground level	35 m	
2.	Diameter of the Stack at Sampling point	2.2 m	
3.	Height of the Sampling Point from Ground Level	22 m	
4.	Area of stack	3.80 m ²	
C. <u>Analysis/Characteristic of stack:</u>			
1.	Fuel used : NA	2. Fuel Consumption: NA	
D . <u>Results of sampling & analysis of gaseous emission</u>			
		<u>Result</u>	<u>Prescribed standard as per CTO</u>
			<u>Method</u>
1.	Temperature of Emission (°C)	58	IS 11255(Part-III)
2.	Barometric pressure (mm of Hg)	751	Lab Method
3.	Velocity of gas (m/sec.)	8.79	IS 11255(Part-III)
4.	Quantity of Gas Flow (Nm ³ /hr)	46118	IS 11255(Part-III)
5.	Concentration of Carbon Dioxide (% v/v)	5.2	IS 13270:1992
6.	Concentration of Oxygen (% v/v)	15.1	IS 13270:1992
7.	Concentration of Carbon Monoxide (% v/v)	<0.2	1 % IS 13270:1992
8.	Concentration of Sulphur Dioxide (mg/Nm ³)	<5.0	IS 11255 (Part II)
9.	Concentration of Nitrogen Dioxide (mg/Nm ³)	<10.0	IS 11255 (Part 7),2005
10.	Concentration of Particulate Matters (mg/Nm ³)	64.8	100 IS 11255(Part-I)
E . <u>Pollution control device</u>			
Details of pollution control devices attached with the stack : Bag Filter			
F. <u>Remarks:</u> Nil			

Report Prepared by:



For Mitra S. K. Private Limited

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/308
Date : 16.07.2024
Sample No. : MSKGL/ED/2024-25/06/00400
Sample Description : Flue Gas Monitoring
Date of Sampling : 14.06.2024
Time of Sampling : 04:32 PM

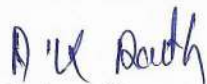
ANALYSIS RESULT

A . <u>General information about stack :</u>			
1.	Stack connected to	WHRB-I	
2.	Emission due to	Burning of Coal	
3.	Material of construction of stack	RCC	
4.	Shape of Stack	Rectangular	
5.	Whether stack is provided with permanent platform & ladder	Yes	
B . <u>Physical characteristics of stack :</u>			
1.	Height of the Stack from Ground level	60 m	
2.	Diameter of the stack at sampling point	2.1m x 1.86 m	
3.	Area of stack	3.906 m ²	
C . <u>Analysis/Characteristic of stack:</u>			
1.	Fuel used : Coal	2. Fuel Consumption : NA	
D .	<u>Results of sampling & analysis of gaseous emission</u>	<u>Result</u>	<u>Prescribed standard as per CTO</u>
			<u>Method</u>
1.	Temperature of Emission (°C)	168	IS 11255(Part-III)
2.	Barometric pressure (mm of Hg)	757	Lab Method
3.	Velocity of gas (m/sec.)	11.9	IS 11255(Part-III)
4.	Quantity of Gas Flow (Nm ³ /hr)	105943	IS 11255(Part-III)
5.	Concentration of Carbon monoxide (% v/v)	<0.2	1% IS 13270:1992
6.	Concentration of Carbon Dioxide (% v/v)	5.5	IS 13270:1992
7.	Concentration of Oxygen (% v/v)	13.5	IS 13270:1992
8.	Concentration of Sulphur Dioxide (mg/Nm ³)	321.0	IS 11255(Part-II)
9.	Concentration of Nitrogen Oxides (mg/Nm ³)	162.0	IS 11255(Part-VII)
10.	Concentration of Particulate Matters (mg/Nm ³)	56.4	100 IS 11255(Part-I)
E . <u>Pollution control device</u>			
Details of pollution control devices attached with the stack : NA			

Report Prepared by: 



For Mitra S. K. Private Limited


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/309
Date : 16.07.2024
Sample No. : MSKGL/ED/2024-25/06/00401
Sample Description : Flue Gas Monitoring
Date of Sampling : 14.06.2024
Time of Sampling : 12.05 PM

ANALYSIS RESULT

A . <u>General information about stack :</u>			
1.	Stack connected to	WHRB-II Outlet	
2 .	Emission due to	Burning of Coal	
3 .	Material of construction of stack	RCC	
4 .	Shape of Stack	Rectangular	
5 .	Whether stack is provided with permanent platform & ladder	Yes	
B . <u>Physical characteristics of stack :</u>			
1.	Height of the Stack from Ground level	60 m	
2.	Diameter of the stack at sampling point	3m x 3.4m	
3.	Area of stack	10.2 m ²	
C. <u>Analysis/Characteristic of stack:</u>			
1.	Fuel used : Coal	2. Fuel Consumption : 28 TPH	
D .	<u>Results of sampling & analysis of gaseous emission</u>	<u>Result</u>	<u>Prescribed standard as per CTO</u>
			<u>Method</u>
1.	Temperature of Emission (°C)	190	EPA Part 2
2.	Barometric pressure (mm of Hg)	757	EPA Part 2
3.	Velocity of gas (m/sec.)	6.84	EPA Part 2
4.	Quantity of Gas Flow (Nm ³ /hr)	151229	EPA Part 2
5.	Concentration of Carbon monoxide (% v/v)	<0.2	1 %
6.	Concentration of Carbon Dioxide (% v/v)	6.1	IS 13270:1992
7.	Concentration of Oxygen (% v/v)	13.2	IS 13270:1992
8.	Concentration of Sulphur Dioxide (mg/Nm3)	408.0	USEPA Part-6-25/09/1996
9.	Concentration of Nitrogen Oxides (mg/Nm3)	280.0	USEPA Part-7-12/03/1996
10.	Concentration of Particulate Matters (mg/Nm ³)	61.8	100
E . <u>Pollution control device</u>			
Details of pollution control devices attached with the stack : Bag Filter			
F. <u>Remarks</u> : Nil			

Report Prepared by:



For Mitra S. K. Private Limited

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/306

Date : 16.07.2024

Sample No. : MSKGL/ED/2024-25/06/00940

Sample Description : Flue Gas Monitoring

Date of Sampling : 14.06.2024

Time of Sampling : 02:38 PM.

ANALYSIS RESULT

A . General information about stack :				
1.	Stack connected to	AFBC		
2 .	Emission due to	Burning of Coal		
3 .	Material of construction of stack	RCC		
4 .	Shape of Stack	Rectangular		
5 .	Whether stack is provided with permanent platform & ladder	Yes		
6.	Boiler Capacity	NA		
B . Physical characteristics of stack :				
1.	Height of the Stack from Ground level	85 m		
2.	Diameter of the stack at sampling point	1.82m X 2.42 m		
3.	Height of the Sampling Point from Ground level	65 m		
4.	Area of stack	4.404 m ²		
C. Analysis/Characteristic of stack:				
1.	Fuel used : Coal	2. Fuel Consumption : 25 T/Hr		
D .	<u>Results of sampling & analysis of gaseous emission</u>	<u>Result</u>	<u>Prescribed standard as per CTO</u>	<u>Method</u>
1.	Temperature of Emission (°C)	148		IS 11255 (Part-III),2008RA 2018
2.	Barometric pressure (mm of Hg)	758		Lab Method
3.	Velocity of gas (m/sec.)	19.94		IS 11255 (Part-III),2008RA 2018
4.	Quantity of Gas Flow (Nm ³ /hr)	215603		IS 11255 (Part-III),2008RA 2018
5.	Concentration of Carbon monoxide (% v/v)	<2.0	<1%	IS 13270:1992
6.	Concentration of Carbon Dioxide (% v/v)	6.4		IS 13270:1992
7.	Concentration of Oxygen (% v/v)	13.3		IS 13270:1992
8.	Concentration of Mercury (mg/Nm3)	0.016	0.03(mg/Nm ³)	IS 13270:1992,Reaf:2009
9.	Concentration of Sulphur Dioxide (mg/Nm3)	167.0	600(mg/Nm ³)	USEPA Part-6-25/09/1996
10.	Concentration of Nitrogen Oxides (mg/Nm3)	129.0	450(mg/Nm ³)	USEPA Part-7-12/03/1996
11.	Concentration of Particulate Matters (mg/Nm ³)	47.3	50(mg/Nm ³)	IS 11255 (Part-I),1985, RA 2014
E . Pollution control device				
Details of pollution control devices attached with the stack : ESP				
F. Remarks : Nil				

Report Prepared by



For Mitra S. K. Private Limited

A. M. B. B. B.
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/308
Date : 07.09.2024
Sample No. : MSKGL/ED/2024-25/08/00650
Sample Description : Flue Gas Monitoring
Date of Sampling : 08.08.2024
Time of Sampling : 12:35 PM

ANALYSIS RESULT

ANALYSIS RESULT

A. <u>General information about stack :</u>			
1.	Stack connected to	CFBC	
2.	Emission due to	Burning of Coal	
3.	Material of construction of stack	M.S.	
4.	Shape of Stack	Circular	
5.	Whether stack is provided with permanent platform & ladder	Yes	
B. <u>Physical characteristics of stack :</u>			
1.	Height of the Stack from Ground level	100 m	
2.	Diameter of the stack at sampling point	2.9 x 2.35 m	
3.	Height of the Sampling Point from Ground level	5 m(approx)	
4.	Area of stack	6.815 m ²	
C. <u>Analysis/Characteristic of stack:</u>			
1.	Fuel used : Coal	2. Fuel Consumption : NA	
D. <u>Results of sampling & analysis of gaseous emission</u>			
		<u>Result</u>	<u>Prescribed standard as per CTO</u>
			<u>Method</u>
1.	Temperature of Emission (°C)	123	EPA Part 2
2.	Barometric pressure (mm of Hg)	756	EPA Part 2
3.	Velocity of gas (m/sec.)	16.9	EPA Part 2
4.	Quantity of Gas Flow (Nm ³ /hr)	318694	EPA Part 2
5.	Concentration of Carbon Dioxide (% v/v)	5.3	IS 13270:1992
6.	Concentration of Oxygen (% v/v)	14.8	IS 13270:1992
7.	Concentration of Carbon Monoxide (% v/v)	<0.2	IS 13270:1992
8.	Concentration of Mercury (mg/Nm3)	0.027	IS 13270:1992, Reaf:2009
9.	Concentration of Sulphur Dioxide (mg/Nm3)	398.4	USEPA Part-6-25/09/1996
10.	Concentration of Nitrogen Oxides (mg/Nm3)	184.2	USEPA Part-7-12/03/1996
11.	Concentration of Particulate Matters (mg/Nm ³)	47.8	USEPA Part-5-16/08/1996
E. <u>Pollution control device</u>			
Details of pollution control devices attached with the stack : ESP			
F. <u>Remarks</u> : Nil			

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918



TEST REPORT

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

Report No. : BBS/307
Date : 07.09.2024
Sample No. : MSKGL/ED/2024-25/08/00711
Sample Description : Flue Gas Monitoring
Date of Sampling : 08.08.2024
Time of Sampling : 03:25 PM

ANALYSIS RESULT

A. General information about stack :			
1.	Stack connected to	DRI Bag Filter-1	
2.	Emission due to	Coal Burning	
3.	Material of construction of stack	M.S	
4.	Shape of Stack	Circular	
5.	Whether stack is provided with permanent platform & ladder	Yes	
B. Physical characteristics of stack :			
1.	Height of the Stack from Ground level	43 m	
2.	Diameter of the stack at sampling point	1.4 m	
3.	Height of the Sampling Point from Ground level	28 m(approx)	
4.	Area of stack	1.54 m ²	
C. Analysis/Characteristic of stack:			
1.	Fuel used : Coal	2. Fuel Consumption : NA	
D. Results of sampling & analysis of gaseous emission			
		Result	Prescribed standard as per CTO
1.	Temperature of Emission (°C)	36	IS 11255 (Part-III), 2008RA 2018
2.	Barometric pressure (mm of Hg)	756	Lab Method
3.	Velocity of gas (m/sec.)	9.52	IS 11255 (Part-III), 2008RA 2018
4.	Quantity of Gas Flow (Nm ³ /hr)	50687	IS 11255 (Part-III), 2008RA 2018
5.	Concentration of Carbon monoxide (% v/v)	<0.2	1% IS 11255 (Part-III), 2008RA
6.	Concentration of Oxygen (% v/v)	13.1	IS 13270:1992, Ref:2009
7.	Concentration of Carbon Dioxide (% v/v)	6.6	IS 13270:1992, Ref:2009
8.	Concentration of Sulphur Dioxide (mg/Nm ³)	330.0	IS 11255 (Part-II), 1985, RA 2014
9.	Concentration of Nitrogen Oxides (mg/Nm ³)	130.0	IS 11255 (Part-II), 2005, RA 2017
10.	Concentration of Particulate Matters (mg/Nm ³)	84.2	100 IS 11255 (Part-I), 1985, RA 2014
E. Pollution control device			
Details of pollution control devices attached with the stack : Bag Filter			
F. Remarks : Nil			

Report Prepared by:



For Mitra S. K. Private Limited

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/207
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/00711
Sample Description : Flue Gas Monitoring
Date of Sampling : 13.09.2024
Time of Sampling : 03:25 PM

ANALYSIS RESULT

A . <u>General information about stack :</u>			
1.	Stack connected to	DRI Bag Filter-1	
2 .	Emission due to	Coal Burning	
3 .	Material of construction of stack	M.S	
4 .	Shape of Stack	Circular	
5 .	Whether stack is provided with permanent platform & ladder	Yes	
B . <u>Physical characteristics of stack :</u>			
1.	Height of the Stack from Ground level	43 m	
2.	Diameter of the stack at sampling point	1.4 m	
3.	Height of the Sampling Point from Ground level	28 m(approx)	
4.	Area of stack	1.54 m ²	
C. <u>Analysis/Characteristic of stack:</u>			
1.	Fuel used : Coal	2. Fuel Consumption : NA	
D . <u>Results of sampling & analysis of gaseous emission</u>	<u>Result</u>	<u>Prescribed standard as per CTO</u>	<u>Method</u>
1.	Temperature of Emission (°C)	45	IS 11255 (Part-III),2008RA 2018
2.	Barometric pressure (mm of Hg)	751	Lab Method
3.	Velocity of gas (m/sec.)	8.3	IS 11255 (Part-III),2008RA 2018
4.	Quantity of Gas Flow (Nm ³ /hr)	42626	IS 11255 (Part-III),2008RA 2018
5.	Concentration of Carbon monoxide (% v/v)	<0.2	1% IS 11255 (Part-III),2008RA
6.	Concentration of Oxygen (% v/v)	13.8	IS 13270:1992,Ref:2009
7.	Concentration of Carbon Dioxide (% v/v)	6.2	IS 13270:1992,Ref:2009
8.	Concentration of Sulphur Dioxide (mg/Nm3)	310.2	IS 11255 (Part-II),1985, RA 2014
9.	Concentration of Nitrogen Oxides (mg/Nm3)	185	IS 11255 (Part-II),2005, RA 2017
10.	Concentration of Particulate Matters (mg/Nm ³)	71.0	100 IS 11255 (Part-I),1985, RA 2014
E . <u>Pollution control device</u>			
Details of pollution control devices attached with the stack : Bag Filter			
F. <u>Remarks</u> : Nil			

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/212
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00262
Sample Description : Flue Gas Monitoring
Date of Sampling : 31.07.2024
Time of Sampling : 03:40 AM

ANALYSIS RESULT

A. General information about stack :				
1.	Stack connected to	DRI Bag Filter-4		
2.	Emission due to	Process Emission		
3.	Material of construction of stack	M.S		
4.	Shape of Stack	Rectangular		
5.	Whether stack is provided with permanent platform & ladder	Yes		
B. Physical characteristics of stack :				
1.	Diameter of the stack at sampling point	0.254 m X 0.305 m		
2.	Area of stack	0.07747 m ²		
C. Analysis/Characteristic of stack:				
1.	Fuel used : Process Emission	2. Fuel Consumption : NA		
D. Results of sampling & analysis of gaseous emission		Result	Prescribed standard as per CTO	Method
1.	Temperature of Emission (°C)	47		IS 11255 (Part-III),2008RA
2.	Barometric pressure (mm of Hg)	751		Lab Method
3.	Velocity of gas (m/sec.)	23.96		IS 11255 (Part-III),2008RA
4.	Quantity of Gas Flow (Nm ³ /hr)	5389.24		IS 11255 (Part-III),2008RA
5.	Concentration of Carbon monoxide (% v/v)	<0.2	1 %	IS 13270:1992
6.	Concentration of Carbon Dioxide (% v/v)	5.2		IS 13270:1992
7.	Concentration of Oxygen (% v/v)	13.7		IS 13270:1992
8.	Concentration of Sulphur Dioxide (mg/Nm ³)	20.6		USEPA Part-6-25/09/1996
9.	Concentration of Nitrogen Oxides (mg/Nm ³)	42.3		USEPA Part-7-12/03/1996
10.	Concentration of Particulate Matters (mg/Nm ³)	30.5	100	IS 11255 (Part-I),1985, RA
E. Pollution control device				
Details of pollution control devices attached with the stack : Bag Filter				
F. Remarks : Nil				

Report Prepared by: 



For Mitra S. K. Private Limited


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/208
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/00401
Sample Description : Flue Gas Monitoring
Date of Sampling : 13.09.2024
Time of Sampling : 01.50 PM

ANALYSIS RESULT

A. General information about stack :				
1.	Stack connected to	WHRB-II Outlet		
2.	Emission due to	Burning of Coal		
3.	Material of construction of stack	RCC		
4.	Shape of Stack	Rectangular		
5.	Whether stack is provided with permanent platform & ladder	Yes		
B. Physical characteristics of stack :				
1.	Height of the Stack from Ground level	60 m		
2.	Diameter of the stack at sampling point	3m x 3.4m		
3.	Area of stack	10.2 m ²		
C. Analysis/Characteristic of stack:				
1.	Fuel used : Coal	2. Fuel Consumption : 28 TPH		
D. Results of sampling & analysis of gaseous emission		Result	Prescribed standard as per CTO	Method
1.	Temperature of Emission (°C)	201		EPA Part 2
2.	Barometric pressure (mm of Hg)	751		EPA Part 2
3.	Velocity of gas (m/sec.)	8.14		EPA Part 2
4.	Quantity of Gas Flow (Nm ³ /hr)	184531		EPA Part 2
5.	Concentration of Carbon monoxide (% v/v)	<0.2	1 %	IS 13270:1992
6.	Concentration of Carbon Dioxide (% v/v)	6.4		IS 13270:1992
7.	Concentration of Oxygen (% v/v)	13.0		IS 13270:1992
8.	Concentration of Sulphur Dioxide (mg/Nm ³)	421.6		USEPA Part-6-25/09/1996
9.	Concentration of Nitrogen Oxides (mg/Nm ³)	118.0		USEPA Part-7-12/03/1996
10.	Concentration of Particulate Matters (mg/Nm ³)	64.9	100	USEPA Part-5-16/08/1996
E. Pollution control device Details of pollution control devices attached with the stack : Bag Filter				
F. Remarks : Nil				

Report Prepared by:



For Mitra S. K. Private Limited

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/210
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/00470
Sample Description : Ambient Air Monitoring
Sampling Location : AAQM-3(Guest House)
Date of Sampling : 13.09.2024

ANALYSIS RESULT

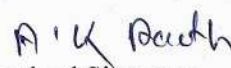
Sl. No	POLLUTANT	RESULT	LIMIT	METHOD OF TEST REFERENCE
1.	Particulate matter (<10 μ m) in μ g/m ³	74.2	100	IS: 5182 (Part-23)-2006
2.	Particulate matter (<2.5 μ m) in μ g/m ³	31.0	60	USEPA CFR-40,Part-50, Appendix-L
3.	Sulphur dioxide (SO ₂) in μ g/m ³	10.8	80	IS: 5182 (Part-2)-2001
4.	Nitrogen dioxide (NO ₂) in μ g/m ³	24.2	80	IS: 5182 (Part- 6)-2006
5.	Carbon monoxide (CO) in mg/m ³	0.58	2	IS: 5182 (Part- 10)-1999
6.	Ozone (O ₃) in μ g/m ³	<20.0	180	Air Sampling , 3 rd Edn.By James P. Lodge (Method-417)
7.	Ammonia (NH ₃) in μ g/m ³	15.5	400	Air Sampling , 3 rd Edn.By James P. Lodge (Method-401)
8.	Lead (Pb) in μ g/m ³	<0.01	1	EPA IO-3.2
9.	Nickel (Ni) in ng/m ³	<5.0	20	EPA IO-3.2
10.	Arsenic (As) in ng/m ³	<1.0	6	APHA 22 nd - 3114C
11.	Benzene (C ₆ H ₆) in μ g/m ³	<4.2	5	IS 5182 : Part. 11-2006
12.	Benzo(a)pyrene (BaP) in ng/m ³	<0.5	1	IS 5182 : Part. 12 -2004

NOTE : Limit as per CPCB notification, New Delhi, 18th November 2009,for Ambient air quality

Report Prepared by: 



For Mitra S.K. Private Limited


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/211
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/00471
Sample Description : Ambient Air Monitoring
Sampling Location : AAQM-4 (Security 14)
Date of Sampling : 13.09.2024

ANALYSIS RESULT

Sl. No	POLLUTANT	RESULT	LIMIT	METHOD OF TEST REFERENCE
1.	Particulate matter (<10 μ m) in μ g/m ³	78.2	100	IS: 5182 (Part-23)-2006
2.	Particulate matter (<2.5 μ m) in μ g/m ³	35.0	60	USEPA CFR-40,Part-50, Appendix-L
3.	Sulphur dioxide (SO ₂) in μ g/m ³	8.4	80	IS: 5182 (Part-2)-2001
4.	Nitrogen dioxide (NO ₂) in μ g/m ³	30.6	80	IS: 5182 (Part- 6)-2006
5.	Carbon monoxide (CO) in mg/m ³	0.65	2	IS: 5182 (Part- 10)-1999
6.	Ozone (O ₃) in μ g/m ³	<20.0	180	Air Sampling , 3 rd Edn.By James P. Lodge (Method-417)
7.	Ammonia (NH ₃) in μ g/m ³	19.4	400	Air Sampling , 3 rd Edn.By James P. Lodge (Method-401)
8.	Lead (Pb) in μ g/m ³	<0.01	1	EPA IO-3.2
9.	Nickel (Ni) in ng/m ³	<5.0	20	EPA IO-3.2
10.	Arsenic (As) in ng/m ³	<1.0	6	APHA 22 nd - 3114C
11.	Benzene (C ₆ H ₆) in μ g/m ³	<4.2	5	IS 5182 : Part. 11-2006
12.	Benzo(a)pyrene (BaP) in ng/m ³	<0.5	1	IS 5182 : Part. 12 -2004
NOTE : Limit as per CPCB notification, New Delhi, 18 th November 2009,for Ambient air quality				

Report Prepared by:



For Mitra S.K. Private Limited

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/499
Date : 13.05.2024
Sample No. : MSKGL/ED/2023-24/04/01164
Sample Description : Effluent Water
Sampling Location : STP Outlet (Rolling Mill
Capacity 10 KLD)
Date of sampling : 25.04.2024

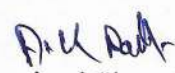
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.58
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	33.6
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	21.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	190.0

Prepared By:-



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
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Bhubaneswar, Khordha, Odisha-751015
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TEST REPORT

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

Report No. : BBS/500
Date : 13.05.2024
Sample No. : MSKGL/ED/2023-24/04/01165
Sample Description : Effluent Water
Sampling Location : STP Outlet (Inside Staff Colony Capacity 200 KLD)
Date of sampling : 25.04.2024

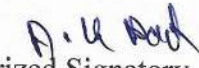
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.37
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	47.1
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	27.3
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	620.0

Prepared By:-

For Mitra S.K. Private Limited




Authorized Signatory

Mitra S. K. Private Limited

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[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/501
Date : 13.05.2024
Sample No. : MSKGL/ED/2023-24/04/01166
Sample Description : Effluent Water
Sampling Location : STP Outlet (Near Staff
Canteen Capacity 10 KLD)
Date of sampling : 25.04.2024

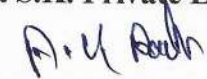
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.34
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	17.8
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	27.6
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	330.0

Prepared By: 



For Mitra S.K. Private Limited


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Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
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Bhubaneswar, Khordha, Odisha-751015
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TEST REPORT

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

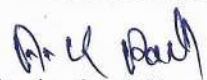
Report No. : BBS/502
Date : 13.05.2024
Sample No. : MSKGL/ED/2023-24/04/01167
Sample Description : Effluent Water
Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)
Date of sampling : 25.04.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	8.40
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	39.2
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	27.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	880.0

Prepared By:- 

For Mitra S.K. Private Limited


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/500
Date : 28.06.2024
Sample No. : MSKGL/ED/2024-25/05/00930
Sample Description : Effluent Water
Sampling Location : STP Outlet (Inside Staff Colony Capacity 200 KLD)
Date of sampling : 22.05.2024

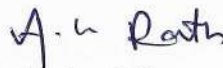
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.08
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	50.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	14.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	610

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited



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[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/501
Date : 28.06.2024
Sample No. : MSKGL/ED/2024-25/05/00931
Sample Description : Effluent Water
Sampling Location : STP Outlet (Near Staff
Canteen Capacity 10 KLD)
Date of sampling : 22.05.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.03
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	47.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	14.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	510

Prepared By:



For Mitra S.K. Private Limited

Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
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Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/503
Date : 28.06.2024
Sample No. : MSKGL/ED/2024-25/05/00933
Sample Description : Effluent Water
Sampling Location : STP Outlet (Rolling Mill Capacity 10 KLD)
Date of sampling : 22.05.2024

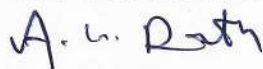
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.24
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	21.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	11.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	320

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/502
Date : 28.06.2024
Sample No. : MSKGL/ED/2024-25/06/00932
Sample Description : Effluent Water
Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)
Date of sampling: 22.05.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.06
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	54.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	17.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	870

Prepared By:-



For Mitra S.K. Private Limited

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/300
Date : 16.07.2024
Sample No. : MSKGL/ED/2024-25/06/00930
Sample Description : Effluent Water
Sampling Location : STP Outlet (Inside Staff Colony Capacity 200 KLD)
Date of sampling : 14.06.2024

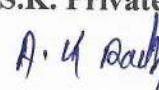
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.43
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	4.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	27.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	810

Prepared By: 



For Mitra S.K. Private Limited


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/301
Date : 16.07.2024
Sample No. : MSKGL/ED/2024-25/06/00931
Sample Description : Effluent Water
Sampling Location : STP Outlet (Near Staff
Canteen Capacity 10 KLD)
Date of sampling : 14.06.2024

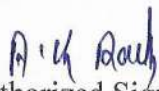
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.34
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	4.4
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	17.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	720

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
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TEST REPORT

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

Report No. : BBS/302
Date : 16.07.2024
Sample No. : MSKGL/ED/2024-25/06/00932
Sample Description : Effluent Water
Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)
Date of sampling: 14.06.2024

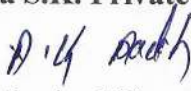
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.06
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	6.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	21.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	630

Prepared By: 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
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TEST REPORT

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

Report No. : BBS/303
Date : 16.07.2024
Sample No. : MSKGL/ED/2024-25/06/00933
Sample Description : Effluent Water
Sampling Location : STP Outlet (Rolling Mill
Capacity 10 KLD)
Date of sampling : 14.06.2024

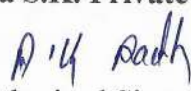
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.31
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	9.4
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	14.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	510

Prepared By:- 



For Mitra S.K. Private Limited


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/205
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00630
Sample Description : Effluent Water
Sampling Location : STP Outlet (Inside Staff Colony Capacity 200 KLD)
Date of sampling : 31.07.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.55
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	9.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	8.2
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	290.0

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
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TEST REPORT

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

Report No. : BBS/206
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00631
Sample Description : Effluent Water
Sampling Location : STP Outlet (Near Staff
Canteen Capacity 10 KLD)
Date of sampling : 31.07.2024

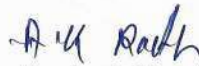
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.88
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	7.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	7.6
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	310.0

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
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[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/207
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00632
Sample Description : Effluent Water
Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)
Date of sampling : 31.07.2024

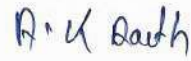
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.47
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	12.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	9.2
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	380.0

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Plot No-687/2428, Ekamra Villa Square,
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[CIN: U51909WB1956PTC023037]
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F : (0674) 2362918

TEST REPORT

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

Report No. : BBS/208
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00633
Sample Description : Effluent Water
Sampling Location : STP Outlet (Rolling Mill
Capacity 10 KLD)
Date of sampling : 31.07.2024

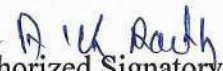
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.93
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	5.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	6.8
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	450.0

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
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[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/200
Date : 07.09.2024
Sample No. : MSKGL/ED/2024-25/08/00630
Sample Description : Effluent Water
Sampling Location : STP Outlet (Inside Staff
Colony Capacity 200 KLD)
Date of sampling : 08.08.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.01
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	10.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	4.1
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	270.0

Prepared By:-



For Mitra S.K. Private Limited

A. K. Rout
Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
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[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/301
Date : 07.09.2024
Sample No. : MSKGL/ED/2024-25/08/00631
Sample Description : Effluent Water
Sampling Location : STP Outlet (Near Staff
Canteen Capacity 10 KLD)
Date of sampling : 08.08.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	6.6
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	5.5
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	5.9
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	340.0

Prepared By:-



For Mitra S.K. Private Limited

A. K. Raut
Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
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[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/302
Date : 07.09.2024
Sample No. : MSKGL/ED/2024-25/08/00632
Sample Description : Effluent Water
Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)
Date of sampling : 08.08.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	6.78
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	8.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	6.6
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	410.0

Prepared By: 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
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[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/303
Date : 07.09.2024
Sample No. : MSKGL/ED/2024-25/08/00633
Sample Description : Effluent Water
Sampling Location : STP Outlet (Rolling Mill
Capacity 10 KLD)
Date of sampling : 08.08.2024

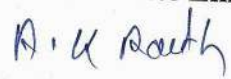
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.12
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	<2.5
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	<2.2
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	280.0

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
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[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/200
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/00630
Sample Description : Effluent Water
Sampling Location : STP Outlet (Inside Staff Colony Capacity 200 KLD)
Date of sampling : 13.09.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.02
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	48.2
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	18.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	640

Prepared By:- 

For Mitra S.K. Private Limited




Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
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TEST REPORT

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

Report No. : BBS/201
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/00631
Sample Description : Effluent Water
Sampling Location : STP Outlet (Near Staff
Canteen Capacity 10 KLD)
Date of sampling : 13.09.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	6.68
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	64.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	14.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	280

Prepared By:- 

For Mitra S.K. Private Limited




Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
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TEST REPORT

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

Report No. : BBS/202
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/00632
Sample Description : Effluent Water
Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)
Date of sampling : 13.09.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.0
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	51.4
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	21.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	710

Prepared By:-



For Mitra S.K. Private Limited

A. K. Bandy
Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
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TEST REPORT

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

Report No. : BBS/203
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/00633
Sample Description : Effluent Water
Sampling Location : STP Outlet (Rolling Mill Capacity 10 KLD)
Date of sampling : 13.09.2024

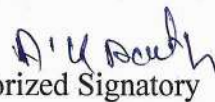
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	7.66
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	41.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	12.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	190

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918



TEST REPORT

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

Report No. : BBS/200
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00300
Sample Description : Effluent Water
Sampling Location : Cooling Tower Blowdown-
50MW
Date of sampling : 31.07.2024

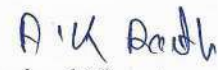
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	Standard as per CTO	Result
1.	Total Chromium as Cr	mg/l	APHA 22nd Edition, 3500 Cr	2.0	BDL(DL:0.01)
2.	Phosphate as P	mg/l	APHA 22nd Edition, 3500 Cr	2.0	BDL(DL:0.01)
3.	Zinc as Zn	mg/l	APHA 22nd Edition.3111B	1.0	0.08
4.	Free Available Chlorine	mg/l	IS 3025 (Part 26)-1986	0.5	BDL(DL:0.5)

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
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[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/201
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00301
Sample Description : Effluent Water
Sampling Location : Cooling Tower Blowdown-40MW
Date of sampling : 31.07.2024

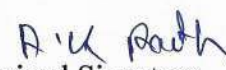
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	Standard as per CTO	Result
1.	Total Chromium as Cr	mg/l	APHA 22nd Edition, 3500 Cr	2.0	0.03
2.	Phosphate as P	mg/l	APHA 22nd Edition, 3500 Cr	2.0	BDL(DL:0.01)
3.	Zinc as Zn	mg/l	APHA 22nd Edition.3111B	1.0	0.08
4.	Free Available Chlorine	mg/l	IS 3025 (Part 26)-1986	0.5	BDL(DL:0.5)

Prepared By:- 



For Mitra S.K. Private Limited


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/202
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00303
Sample Description : Effluent Water
Sampling Location : AFBC Boiler Blowdown
Date of sampling : 31.07.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	Standard as per CTO	Result
1.	Copper as Cu	mg/l	APHA 22nd Edition.3120B	1.0	BDL(DL:0.02)
2.	Total Suspended Solids	mg/l	APHA(23 rd Edtn.)2540D	100	3.4
3.	Iron as Fe	mg/l	APHA 22nd Edition.3500 Fe	1.0	BDL(DL:0.05)
4.	Oil & Grease	mg/l	APHA 22nd Edition.5220B	20	BDL(DL:3.0)

Prepared By:- 

For Mitra S.K. Private Limited




Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
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F : (0674) 2362918

TEST REPORT

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

Report No. : BBS/203
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00304
Sample Description : Effluent Water
Sampling Location : WHRB -1, Boiler Blowdown
Date of sampling : 31.07.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	Standard as per CTO	Result
1.	Copper as Cu	mg/l	APHA 22nd Edition.3120B	1.0	BDL(DL:0.02)
2.	Total Suspended Solids	mg/l	APHA(23 rd Edtn.)2540D	100	BDL(DL:2.5)
3.	Iron as Fe	mg/l	APHA 22nd Edition.3500 Fe	1.0	BDL(DL:0.05)
4.	Oil & Grease	mg/l	APHA 22nd Edition.5220B	20	BDL(DL:3.0)

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
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TEST REPORT

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

Report No. : BBS/204
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00305
Sample Description : Effluent Water
Sampling Location : WHRB -2, Boiler Blowdown
Date of sampling : 31.07.2024

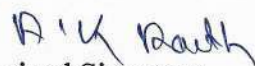
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	Standard as per CTO	Result
1.	Copper as Cu	mg/l	APHA 22nd Edition.3120B	1.0	BDL(DL:0.02)
2.	Total Suspended Solids	mg/l	APHA(23 rd Edtn.)2540D	100	BDL(DL:2.5)
3.	Iron as Fe	mg/l	APHA 22nd Edition.3500 Fe	1.0	BDL(DL:0.05)
4.	Oil & Grease	mg/l	APHA 22nd Edition.5220B	20	BDL(DL:3.0)

Prepared By:- 



For Mitra S.K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
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F : (0674) 2362918



TEST REPORT

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

Report No. : BBS/309
Date : 07.09.2024
Sample No. : MSKGL/ED/2019-20/10/00963
Sample Description : Surface Water (Run-off)
Sampling Location : Culvert Near Ghantikhal
Railway Station
Date of sampling : 08.08.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Standards	Test Method / Specification	Result
			Inland Surface		
1.	pH value at 26°C	---	5.5 to 9.0	APHA(23 rd Edtn.)4500-H-B	6.53
2.	Total Chromium (as Cr)	mg/l	2.0	APHA(23 rd Edtn.)3111 D 2017	<0.03
3.	Hexavalent Chromium (as Cr ⁺⁶)	mg/l	----	APHA(23 rd Edtn.)3500 Cr B	<0.03
4.	Total Suspended Solids (as TSS)	mg/l	100.0	APHA(23 rd Edtn.)2540D	76.0
5.	Oil & Grease	mg/l	----	APHA(23 rd Edtn.)3500 Fe B	<5.0

Prepared By:-



For Mitra S.K. Private Limited

Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
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TEST REPORT

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

Report No. : BBS/310
Date : 07.09.2024
Sample No. : MSKGL/ED/2024-25/08/00963
Sample Description : Surface Water (Run-off)
Sampling Location : Coal Yard
Date of sampling : 08.08.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Standards	Test Method / Specification	Result
			Inland Surface		
1.	pH value at 26°C	---	5.5 to 9.0	APHA(23 rd Edtn.)4500-H-B	6.82
2.	Total Chromium (as Cr)	mg/l	2.0	APHA(23 rd Edtn.)3111 D 2017	<0.03
3.	Hexavalent Chromium (as Cr ⁺⁶)	mg/l	----	APHA(23 rd Edtn.)3500 Cr B	<0.03
4.	Total Suspended Solids (as TSS)	mg/l	100.0	APHA(23 rd Edtn.)2540D	96.0
5.	Oil & Grease	mg/l	----	APHA(23 rd Edtn.)3500 Fe B	<5.0

Prepared By:- 



For Mitra S.K. Private Limited


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/209
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/00963
Sample Description : Surface Water
Sampling Location : Culvert Near Ghantikhal
Railway Station
Date of sampling : 13.09.2024

ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Standards	Test Method / Specification	Result
			Inland Surface		
1.	pH value at 26°C	---	5.5 to 9.0	APHA(23 rd Edtn.)4500-H-B	6.65
2.	Total Chromium (as Cr)	mg/l	2.0	APHA(23 rd Edtn.)3111 D 2017	<0.03
3.	Hexavalent Chromium (as Cr ⁺⁶)	mg/l	----	APHA(23 rd Edtn.)3500 Cr B	<0.03
4.	Total Suspended Solids (as TSS)	mg/l	100.0	APHA(23 rd Edtn.)2540D	8.4
5.	Oil & Grease	mg/l	----	APHA(23 rd Edtn.)3500 Fe B	<5.0

Prepared By:-



For Mitra S.K. Private Limited

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/504
Date : 28.06.2024
Sample No. : MSKGL/ED/2024-25/05/00934
Sample Description : Effluent Water
Sampling Location : Jigging Plant Outlet
Date of sampling : 22.05.2024

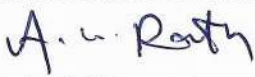
ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 rd Edtn.)4500-H-B	6.5-9.0	8.21
2.	Total Suspended Solids (as TSS)	mg/l	APHA(23 rd Edtn.)2540D	<100	2000.0
3.	Biochemical Oxygen Demand (as BOD)	mg/l	APHA(23 rd Edtn.)5210B	<30	124.0
4.	Faecal Coliform	MPN/100ml	APHA(23 rd Edtn.)9221E	<1000	17000.00

Prepared By: 



For Mitra S.K. Private Limited


Authorized Signatory

M/s AARTI STEELS LIMITED, GHANTIKHAL, CUTTACK							
Solid Waste Management Report for the Year (April 2024 - March 2025)							
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	31684.00	31684.00	100.00	Disposed off for road making/land filling/disposal after iron recovery.
2	2 X 500 TPD DRI	Char	132000	89483.00	89483.00	100.00	Used as Fuel in power plant.
		Iron Fines	132000	93112.00	93112.00	100.00	Being sold
		Wet scrapper sludge	10560	4800.00	4800.00	100.00	Disposed to allocated solid waste disposal site
		DE Dust	21450	19433.00	19433.00	100.00	DE dust is used in DRI after burning chamber for energy recovery.
3	90 MW Power Plant	Fly ash from AFBC, CFBC, WHRB - I & II	207000	191624.00	191624.00	100.00	Used by supplying fly ash to cement & Brick manufacturing units.
		Bottom ash from AFBC, CFBC,	90000	72390.00	72390.00	100.00	Road making, land fillings and supply for paver blocks making
4	2 X 9 MVA	Slag	25000	11150.00	11000.00	98.65	Road making, land filling and balance is disposed in the allocated disposal site
5	1 x 18 MVA	Slag	25000	14200.00	14000.00	98.59	Road making, land filling and balance is disposed in the allocated disposal site
6	0.2 MTPA Rolling Mill	Mill Scale	2400	1386.00	1386.00	100.00	Being sold
Total			701510.00	529262.00	528912.00	99.93	



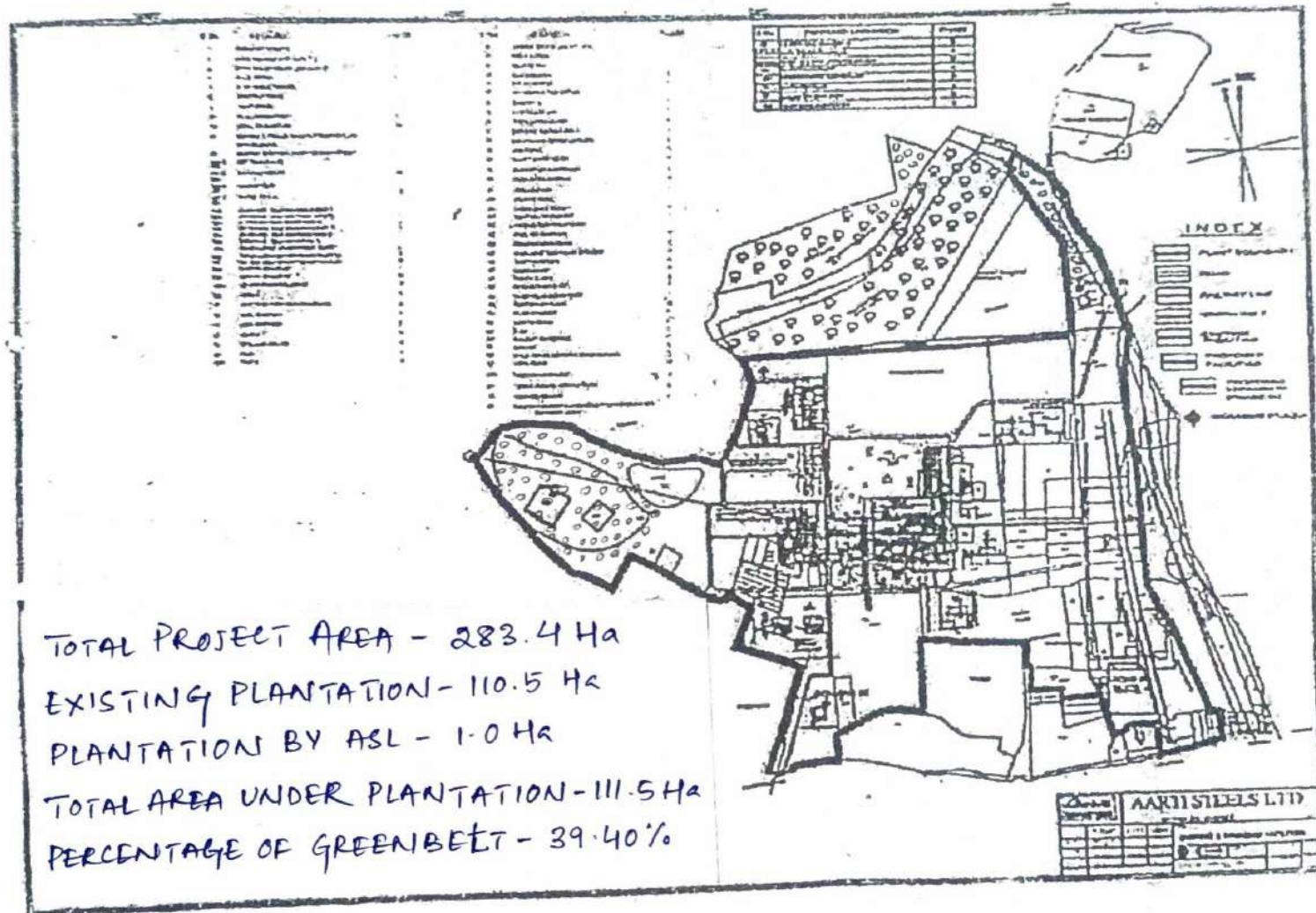
FLYASH UTILIZATION (FY 2024-25)										
SL.NO.	Name of the Industry	Location	No. of units	Year	Total capacity	Power Generation on (MWH)	Coal consumption (MT)	Ash Generated in MT		
								Quantity of fly ash generated	Quantity of Bottom ash generated	Total Ash Generated
1	Aarti Steels Ltd.	Ghantikhal, Cuttack	4 units	2024-25	90 MW	247261	463499	191624	72390	264014

ASH UTILIZATION IN MT											
Target (as per action plan)	Ash Pond rising in tonnes	Cement/ other industry	Land development	Own bricks unit(MT)	Bricks Unit(MT) outside	Brick Kiln	Road Embankment	Back filling of mines/stone quarry	Agriculture	Own based product(other than bricks)	Ash based product (outside)
264014	0	40673	664		207099	0	0	0	0	0	0

Ash Pond	Total Ash Utilized	Qumulative quantity of ash utilized	Qumulative total of ash not utilized	% of utilization	Likely increase in ash generation
0	248436			100	



Annexure - VII



Mitra S. K. Private Limited

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[CIN: U51909WB1956PTC023037]
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**TEST REPORT**

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

Report No. : BBS/503
Date : 13.05.2024
Sample No. : MSKGL/ED/2023-24/04/00840
Sample Description : Noise (Work Zone)

Noise Level Monitoring Data

<u>Sl. No</u>	<u>Sampling Date</u>	<u>Sampling Location</u>	<u>Results in Avg Leq dB(A)</u>
1.	25.04.2024	SMS LRF	67.4
2.	25.04.2024	SMS EAF	72.9
3.	25.04.2024	SMS CCM	64.1
4.	25.04.2024	IOC Terax Crusher Area	60.7
5.	25.04.2024	IOC Screen Building	74.2
6.	25.04.2024	CHP 400 TPH Crusher	62.9
7.	25.04.2024	CHP 220 TPH Crusher	66.4
8.	25.04.2024	FAP 1x18 MVA Furnace GF	61.7
9.	25.04.2024	FAP 1x18 MVA Compressor Room	71.2
10.	25.04.2024	FAP 2x9 MVA Furnace GF	68.6
11.	25.04.2024	FAP 2x9 MVA Compressor Room	76.9
12.	25.04.2024	Briquetting Mixture Machine	60.1
13.	25.04.2024	Briquetting Drier	82.7
14.	25.04.2024	DRI Kiln I	65.3
15.	25.04.2024	DRI Kiln II	68.1
16.	25.04.2024	DRI Bagging Area	70.1

Report No: BBS/503

Date: 13.05.2024

17.	25.04.2024	DRI Cooler Discharge Area	67.8
18.	25.04.2024	DG Set Power Plant	79.4
19.	25.04.2024	CFBC Boiler	73.1
20.	25.04.2024	AFBC Boiler	83.9
21.	25.04.2024	WHRB I Boiler	75.1
22.	25.04.2024	WHRB II Boiler	72.8
23.	25.04.2024	TG Set	80.4
24.	25.04.2024	Air Compressor	70.2
25.	25.04.2024	Rolling Mill Area	63.7
26.	25.04.2024	Rolling Mill Near RHF Blower	81.2
27.	25.04.2024	Rolling Mill Near BD Mill	83.2
28.	25.04.2024	Rolling Mill Near Bright Bar Peeling Machine	80.9
29.	25.04.2024	Rolling Mill Near Straightening Machine	77.8

OSHA'S Permissible Noise Exposure Limits	
Noise Level	Exposure Limit
85 dBA	8.0 hours

For Mitra S. K. Private Limited

Report Prepared by: 

 Authorized Signatory

Mitra S. K. Private Limited

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[CIN: U51909WB1956PTC023037]
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TEST REPORT

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

Report No. : BBS/504
Date : 13.05.2024
Sample No. : MSKGL/ED/2023-24/04/00810
Sample Description : Ambient Noise

ANALYSIS RESULT

Sl. No	Sampling Date	Sampling Location	Results in dB(A)	
			Day Time	Night Time
1.	25.04.2024	Central Store	50.1	41.6
2.	25.04.2024	Switch Yard	60.9	42.2
3.	25.04.2024	Workers Colony	66.8	41.0
4.	25.04.2024	Railway Siding	71.2	47.1
5.	25.04.2024	Weigh Bridge	68.7	44.9
6.	25.04.2024	Guest House	51.6	36.4
7.	25.04.2024	Main Gate	70.2	41.4
8.	25.04.2024	Staff Colony	58.6	38.2
9.	25.04.2024	Admin. Building	60.6	40.1
10.	25.04.2024	Safety Excellence Centre	60.1	35.2
11.	25.04.2024	Traffic point near Coal Washery	51.4	37.2
12.	25.04.2024	Dispensary	40.9	36.1
13.	25.04.2024	Canteen	53.4	39.8

Noise Limit as per CPCB

Category of Area/Zone	Leq dB(A) Day Time	Leq dB(A) Night Time	NOTE : Day Time : 06.00 Hr.-22.00 Hr. Night Time:22.00 Hr.-06.00 Hr.
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Report Prepared by:



For Mitra S. K. Private Limited

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/505
Date : 28.06.2024
Sample No. : MSKGL/ED/2024-25/05/00450
Sample Description : Ambient Noise

ANALYSIS RESULT

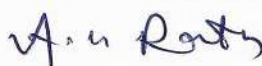
Sl. No	Sampling Date	Sampling Location	Results in dB(A)	
			Day Time	Night Time
1.	22.05.2024	Central Store	66.0	41.6
2.	22.05.2024	Switch Yard	62.1	40.9
3.	22.05.2024	Workers Colony	54.6	36.1
4.	22.05.2024	Railway Siding	69.2	47.5
5.	22.05.2024	Weigh Bridge	68.1	43.8
6.	22.05.2024	Guest House	40.5	37.6
7.	22.05.2024	Main Gate	71.7	45.4
8.	22.05.2024	Staff Colony	62.9	38.3
9.	22.05.2024	Admin. Building	63.8	37.1
10.	22.05.2024	Safety Excellence Centre	53.8	40.5
11.	22.05.2024	Traffic point near Coal Washery	45.2	36.9
12.	22.05.2024	Dispensary	40.9	36.1
13.	22.05.2024	Canteen	67.2	40.1

Noise Limit as per CPCB			
Category of Area/Zone	Leq dB(A) Day Time	Leq dB(A) Night Time	NOTE : Day Time : 06.00 Hr.-22.00 Hr. Night Time:22.00 Hr.-06.00 Hr.
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Report Prepared by: 



For Mitra S. K. Private Limited


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/506
Date : 28.06.2024
Sample No. : MSKGL/ED/2024-25/05/00580
Sample Description : Noise (Work Zone)

Noise Level Monitoring Data

<u>Sl. No</u>	<u>Sampling Date</u>	<u>Sampling Location</u>	<u>Results in Avg Leq dB(A)</u>
1.	23.05.2024	SMS LRF	64.8
2.	23.05.2024	SMS EAF	69.2
3.	23.05.2024	SMS CCM	74.5
4.	23.05.2024	IOC Terax Crusher Area	62.8
5.	23.05.2024	IOC Screen Building	61.6
6.	23.05.2024	CHP 400 TPH Crusher	75.1
7.	23.05.2024	CHP 220 TPH Crusher	63.7
8.	23.05.2024	FAP 1x18 MVA Furnace GF	76.8
9.	23.05.2024	FAP 1x18 MVA Compressor Room	70.9
10.	23.05.2024	FAP 2x9 MVA Furnace GF	66.4
11.	23.05.2024	FAP 2x9 MVA Compressor Room	72.9
12.	23.05.2024	Briquetting Mixture Machine	66.5
13.	23.05.2024	Briquetting Drier	78.2
14.	23.05.2024	DRI Kiln I	61.4
15.	23.05.2024	DRI Kiln II	69.6
16.	23.05.2024	DRI Bagging Area	67.4

Report No: BBS/506

Date: 28.06.2024

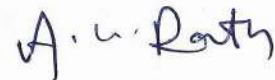
17.	23.05.2024	DRI Cooler Discharge Area	62.9
18.	23.05.2024	DG Set Power Plant	82.4
19.	23.05.2024	CFBC Boiler	72.1
20.	23.05.2024	AFBC Boiler	70.8
21.	23.05.2024	WHRB I Boiler	62.4
22.	23.05.2024	WHRB II Boiler	75.2
23.	23.05.2024	TG Set	83.1
24.	23.05.2024	Air Compressor	62.3
25.	23.05.2024	Rolling Mill Area	71.4

<u>OSHA'S Permissible Noise Exposure Limits</u>	
<u>Noise Level</u>	<u>Exposure Limit</u>
85 dBA	8.0 hours

Report Prepared by:




For Mitra S. K. Private Limited



Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918



TEST REPORT

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

Report No. : BBS/304
Date : 14.07.2024
Sample No. : MSKGL/ED/2024-25/06/00450
Sample Description : Ambient Noise

ANALYSIS RESULT

Sl. No	Sampling Date	Sampling Location	Results in dB(A)	
			Day Time	Night Time
1.	14.06.2024	Central Store	51.5	40.4
2.	14.06.2024	Switch Yard	60.2	41.2
3.	14.06.2024	Workers Colony	59.1	37.6
4.	14.06.2024	Railway Siding	64.2	45.3
5.	14.06.2024	Weigh Bridge	68.7	41.9
6.	14.06.2024	Guest House	41.1	36.8
7.	14.06.2024	Main Gate	71.2	44.7
8.	14.06.2024	Staff Colony	50.2	39.6
9.	14.06.2024	Admin. Building	68.0	38.5
10.	14.06.2024	Safety Excellence Centre	54.1	42.9
11.	14.06.2024	Traffic point near Coal Washery	51.3	36.4
12.	14.06.2024	Dispensary	40.2	37.9
13.	14.06.2024	Canteen	49.4	38.1

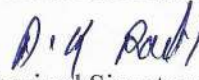
Noise Limit as per CPCB

Category of Area/Zone	Leq dB(A) Day Time	Leq dB(A) Night Time	NOTE : Day Time : 06.00 Hr.-22.00 Hr. Night Time:22.00 Hr.-06.00 Hr.
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Report Prepared by: 



For Mitra S. K. Private Limited


Authorized Signatory

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918

TEST REPORT

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

Report No. : BBS/305
Date : 16.07.2024
Sample No. : MSKGL/ED/2024-25/06/00580
Sample Description : Noise (Work Zone)

Noise Level Monitoring Data

<u>Sl. No</u>	<u>Sampling Date</u>	<u>Sampling Location</u>	<u>Results in Avg Leq dB(A)</u>
1.	15.06.2024	SMS LRF	66.4
2.	15.06.2024	SMS EAF	68.1
3.	15.06.2024	SMS CCM	72.9
4.	15.06.2024	IOC Terax Crusher Area	60.6
5.	15.06.2024	IOC Screen Building	61.4
6.	15.06.2024	CHP 400 TPH Crusher	76.9
7.	15.06.2024	CHP 220 TPH Crusher	61.5
8.	15.06.2024	FAP 1x18 MVA Furnace GF	74.2
9.	15.06.2024	FAP 1x18 MVA Compressor Room	71.8
10.	15.06.2024	FAP 2x9 MVA Furnace GF	67.5
11.	15.06.2024	FAP 2x9 MVA Compressor Room	70.6
12.	15.06.2024	Briquetting Mixture Machine	67.2
13.	15.06.2024	Briquetting Drier	77.8
14.	15.06.2024	DRI Kiln I	63.1
15.	15.06.2024	DRI Kiln II	69.2
16.	15.06.2024	DRI Bagging Area	66.9

Report No: BBS/305

Date: 16.07.2024

17.	15.06.2024	DRI Cooler Discharge Area	65.1
18.	15.06.2024	DG Set Power Plant	80.9
19.	15.06.2024	CFBC Boiler	73.4
20.	15.06.2024	AFBC Boiler	71.5
21.	15.06.2024	WHRB I Boiler	63.9
22.	15.06.2024	WHRB II Boiler	77.6
23.	15.06.2024	TG Set	84.2
24.	15.06.2024	Air Compressor	64.8
25.	15.06.2024	Rolling Mill Area	72.4

OSHA'S Permissible Noise Exposure Limits	
Noise Level	Exposure Limit
85 dBA	8.0 hours

Report Prepared by: 

For Mitra S. K. Private Limited



Authorized Signatory

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918

TEST REPORT

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

Report No. : BBS/209
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00600
Sample Description : Noise (Work Zone)

Noise Level Monitoring Data

<u>Sl. No</u>	<u>Sampling Date</u>	<u>Sampling Location</u>	<u>Results in Avg Leq dB(A)</u>
1.	31.07.2024	SMS LRF	66.7
2.	31.07.2024	SMS EAF	72.8
3.	31.07.2024	SMS CCM	65.3
4.	31.07.2024	IOC Terax Crusher Area	70.9
5.	31.07.2024	IOC Screen Building	68.4
6.	31.07.2024	CHP 400 TPH Crusher	71.3
7.	31.07.2024	CHP 220 TPH Crusher	69.3
8.	31.07.2024	FAP 1x18 MVA Furnace GF	73.5
9.	31.07.2024	FAP 1x18 MVA Compressor Room	70.6
10.	31.07.2024	FAP 2x9 MVA Furnace GF	74.2
11.	31.07.2024	FAP 2x9 MVA Compressor Room	82.9
12.	31.07.2024	Briquetting Mixture Machine	71.9
13.	31.07.2024	Briquetting Drier	80.6
14.	31.07.2024	DRI Kiln I	61.5
15.	31.07.2024	DRI Kiln II	63.6
16.	31.07.2024	DRI Bagging Area	72.9

Report No: BBS/209

Date: 06.09.2024

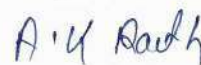
17.	31.07.2024	DRI Cooler Discharge Area	65.5
18.	31.07.2024	DG Set Power Plant	79.4
19.	31.07.2024	CFBC Boiler	77.5
20.	31.07.2024	AFBC Boiler	71.3
21.	31.07.2024	WHRB I Boiler	73.6
22.	31.07.2024	WHRB II Boiler	68.3
23.	31.07.2024	TG Set	82.1
24.	31.07.2024	Air Compressor	70.3
25.	31.07.2024	Rolling Mill Area	75.9

OSHA'S Permissible Noise Exposure Limits

<u>Noise Level</u>	<u>Exposure Limit</u>
85 dBA	8.0 hours

Report Prepared by: 

For Mitra S. K. Private Limited



Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918

TEST REPORT

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

Report No. : BBS/210
Date : 06.09.2024
Sample No. : MSKGL/ED/2024-25/08/00720
Sample Description : Ambient Noise

ANALYSIS RESULT

Sl. No	Sampling Date	Sampling Location	Results in dB(A)	
			Day Time	Night Time
1.	31.07.2024	Central Store	52.6	41.8
2.	31.07.2024	Switch Yard	71.2	49.7
3.	31.07.2024	Workers Colony	52.8	43.2
4.	31.07.2024	Railway Siding	70.9	50.1
5.	31.07.2024	Weigh Bridge	66.2	45.3
6.	31.07.2024	Guest House	51.6	37.9
7.	31.07.2024	Main Gate	70.8	40.5
8.	31.07.2024	Staff Colony	55.0	39.1
9.	31.07.2024	Admin. Building	64.8	42.4
10.	31.07.2024	Safety Excellence Centre	61.7	43.2
11.	31.07.2024	Traffic point near Coal Washery	50.6	39.9
12.	31.07.2024	Dispensary	46.8	36.7
13.	31.07.2024	Canteen	59.1	40.6

Noise Limit as per CPCB			
Category of Area/Zone	Leq dB(A) Day Time	Leq dB(A) Night Time	NOTE : Day Time : 06.00 Hr.-22.00 Hr. Night Time:22.00 Hr.-06.00 Hr.
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Report Prepared by: 



For Mitra S. K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
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F : (0674) 2362918

TEST REPORT

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

Report No. : BBS/304
Date : 07.09.2024
Sample No. : MSKGL/ED/2024-25/08/00600
Sample Description : Noise (Work Zone)

Noise Level Monitoring Data

<u>Sl. No</u>	<u>Sampling Date</u>	<u>Sampling Location</u>	<u>Results in Avg Leq dB(A)</u>
1.	08.08.2024	SMS LRF	68.4
2.	08.08.2024	SMS EAF	72.6
3.	08.08.2024	SMS CCM	67.3
4.	08.08.2024	IOC Terax Crusher Area	71.8
5.	08.08.2024	IOC Screen Building	70.6
6.	08.08.2024	CHP 400 TPH Crusher	67.3
7.	08.08.2024	CHP 220 TPH Crusher	66.2
8.	08.08.2024	FAP 1x18 MVA Furnace GF	74.3
9.	08.08.2024	FAP 1x18 MVA Compressor Room	69.1
10.	08.08.2024	FAP 2x9 MVA Furnace GF	73.8
11.	08.08.2024	FAP 2x9 MVA Compressor Room	80.4
12.	08.08.2024	Briquetting Mixture Machine	70.1
13.	08.08.2024	Briquetting Drier	79.5
14.	08.08.2024	DRI Kiln I	60.3
15.	08.08.2024	DRI Kiln II	62.7
16.	08.08.2024	DRI Bagging Area	73.2

Report No: BBS/304

Date: 07.09.2024

17.	08.08.2024	DRI Cooler Discharge Area	62.8
18.	08.08.2024	DG Set Power Plant	74.4
19.	08.08.2024	CFBC Boiler	78.5
20.	08.08.2024	AFBC Boiler	70.1
21.	08.08.2024	WHRB I Boiler	75.9
22.	08.08.2024	WHRB II Boiler	66.8
23.	08.08.2024	TG Set	80.4
24.	08.08.2024	Air Compressor	71.9
25.	08.08.2024	Rolling Mill Area	72.5

<u>OSHA'S Permissible Noise Exposure Limits</u>	
<u>Noise Level</u>	<u>Exposure Limit</u>
85 dBA	8.0 hours

Report Prepared by: 

For Mitra S. K. Private Limited



Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918



TEST REPORT

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

Report No. : BBS/305
Date : 07.09.2024
Sample No. : MSKGL/ED/2024-25/08/00720
Sample Description : Ambient Noise

ANALYSIS RESULT

Sl. No	Sampling Date	Sampling Location	Results in dB(A)	
			Day Time	Night Time
1.	08.08.2024	Central Store	50.5	40.4
2.	08.08.2024	Switch Yard	69.6	47.2
3.	08.08.2024	Workers Colony	56.8	38.1
4.	08.08.2024	Railway Siding	66.4	51.8
5.	08.08.2024	Weigh Bridge	72.9	42.5
6.	08.08.2024	Guest House	51.0	36.8
7.	08.08.2024	Main Gate	74.6	41.6
8.	08.08.2024	Staff Colony	51.8	37.3
9.	08.08.2024	Admin. Building	63.8	40.4
10.	08.08.2024	Safety Excellence Centre	62.9	45.2
11.	08.08.2024	Traffic point near Coal Washery	53.2	38.9
12.	08.08.2024	Dispensary	45.1	37.9
13.	08.08.2024	Canteen	58.6	40.8

Noise Limit as per CPCB

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

NOTE :
Day Time : 06.00 Hr.-22.00 Hr.
Night Time:22.00 Hr.-06.00 Hr.

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
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Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918

TEST REPORT

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

Report No. : BBS/204
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/00600
Sample Description : Noise (Work Zone)

Noise Level Monitoring Data

<u>Sl. No</u>	<u>Sampling Date</u>	<u>Sampling Location</u>	<u>Results in Avg Leq dB(A)</u>
1.	13.09.2024	SMS LRF	64.8
2.	13.09.2024	SMS EAF	69.2
3.	13.09.2024	SMS CCM	66.9
4.	13.09.2024	IOC Terax Crusher Area	70.4
5.	13.09.2024	IOC Screen Building	72.2
6.	13.09.2024	CHP 400 TPH Crusher	68.4
7.	13.09.2024	CHP 220 TPH Crusher	62.5
8.	13.09.2024	FAP 1x18 MVA Furnace GF	71.8
9.	13.09.2024	FAP 1x18 MVA Compressor Room	67.5
10.	13.09.2024	FAP 2x9 MVA Furnace GF	73.9
11.	13.09.2024	FAP 2x9 MVA Compressor Room	81.6
12.	13.09.2024	Briquetting Mixture Machine	69.8
13.	13.09.2024	Briquetting Drier	77.6
14.	13.09.2024	DRI Kiln I	60.4
15.	13.09.2024	DRI Kiln II	63.2
16.	13.09.2024	DRI Bagging Area	75.8

Report No: BBS/204

Date: 15.10.2024

17.	13.09.2024	DRI Cooler Discharge Area	60.1
18.	13.09.2024	DG Set Power Plant	73.6
19.	13.09.2024	CFBC Boiler	76.4
20.	13.09.2024	AFBC Boiler	70.9
21.	13.09.2024	WHRB I Boiler	71.2
22.	13.09.2024	WHRB II Boiler	64.5
23.	13.09.2024	TG Set	80.9
24.	13.09.2024	Air Compressor	70.1
25.	13.09.2024	Rolling Mill Area	72.9

OSHA'S Permissible Noise Exposure Limits	
Noise Level	Exposure Limit
85 dBA	8.0 hours

Report Prepared by: 

For Mitra S. K. Private Limited



Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918

TEST REPORT

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

Report No. : BBS/205
Date : 15.10.2024
Sample No. : MSKGL/ED/2024-25/09/00720
Sample Description : Ambient Noise

ANALYSIS RESULT

Sl. No	Sampling Date	Sampling Location	Results in dB(A)	
			Day Time	Night Time
1.	14.09.2024	Central Store	51.2	40.9
2.	14.09.2024	Switch Yard	67.8	45.7
3.	14.09.2024	Workers Colony	68.6	49.1
4.	14.09.2024	Railway Siding	64.1	50.2
5.	14.09.2024	Weigh Bridge	70.8	43.7
6.	14.09.2024	Guest House	44.0	37.3
7.	14.09.2024	Main Gate	71.6	48.5
8.	14.09.2024	Staff Colony	58.4	38.9
9.	14.09.2024	Admin. Building	60.5	39.8
10.	14.09.2024	Safety Excellence Centre	60.5	46.4
11.	14.09.2024	Traffic point near Coal Washery	52.8	36.5
12.	14.09.2024	Dispensary	47.2	33.0
13.	14.09.2024	Canteen	64.3	41.4

Noise Limit as per CPCB			
Category of Area/Zone	Leq dB(A) Day Time	Leq dB(A) Night Time	NOTE : Day Time : 06.00 Hr.-22.00 Hr. Night Time:22.00 Hr.-06.00 Hr.
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory

CONSOLIDATED PERIPHERAL EXPENDITURES IN DIFFERENT HEADS UP TO 31.12.24		
SL NO	PARTICULARS	AMOUNT
1	HEALTH CARE	Rs 2,94,48,046.00
2	EDUCATION	Rs 43,94,935.00
3	COMMUNITY DEVELOPMENT, SOCIAL WELFARE & OTHERS	Rs 3,85,53,432.00
4	GAMES & SPORTS	Rs 8,72,400.00
5	ENVIRONMENTAL PROTECTION	Rs 4,98,500.00
6	SOCIAL INFRASTRUCTURE & OTHER MISCELLANEOUS WORKS	Rs 42,53,855.00
	TOTAL	Rs 7,80,21,168.00



Expenditure Incurred on Environmental Protection Measures
by Aarti Steels Limited (for the period 01.04.2024 to 31.03.2025)

- Total Expenditure incurred so far is **Rs 1094 (As per CA certificate)**
- Total cost incurred on environmental protection measures as on 31.03.2025 is **172.25 crore.**

Sl. No.	Category	Total Cost incurred till 31.03.2024 (in Crore)	Total Cost incurred till 31.03.2025 (in Crore)
1.	Air Pollution Control	88.76	76.97
2.	Water Pollution Control	8.324	5.59
3.	Conservation of Resources	1.06926	1.01
4.	Noise Pollution Control	0.159	0.2125
5.	Environment Monitoring	14.986	10.87
6.	Occupational Health	2.7522	8.03
7.	Green Belt Development	2.666	12.65
8.	House Keeping	11.497	7.55
9.	Peripheral Development	7.1423	2.296
10.	Solid Waste Management	28.6164	22.35
11.	Hazardous Waste Management	0.553	0.61
12.	Statutory Fees	2.729	15.4
13.	Bio-medical Waste Management	0.023	0.019
14.	Others	0.687	8.68
	Total	169.964	172.25



Annexure -

Annexure - XII

CHAPTER - IX

9.1 ORGANISATION, MANPOWER AND FISCAL ESTIMATE

Aarti Steel Limited will be having a Pollution Control Cell at plant level as well as at Corporate level for interaction with statutory bodies. Plant Chief will head the plant level pollution control cell with a Nodal Officer, Engineer, Chemist/etc. The plant level Cell will be provided with well-equipped laboratory for carrying out analysis of the samples of the water, air etc. Plant Cell will carry out the monitoring of the stack emission, noise level, analysis of the water etc. and keep the regional/local statutory body informed about the status of pollution control with intimation to the Corporate office Pollution Control Cell. Aarti Limited will arrange professional training for personnel of pollution Control cell at plant level. The proper training shall be provided for staff of monitoring and continuous analysis of the pollutants, legal requirement and environmental management system.

The total project cost has been estimated to be \$63.35 crores rupees. The capital cost of environmental control measures is 40 crores, which is:

i)	Cost of Air pollution Systems	Rs. 20.0 crores
ii)	Cost of Water Pollution Control	Rs. 4.5 crores
iii)	Cost of solid waste Management	Rs. 15.0 crores
iv)	Including cost of dust and ash dump storage with bunds and green belt development	Rs. 0.5 crores

The annual cost of environmental control including the salary and perks for the personals engaged in the environmental cell. for the proposed unit has been estimated to be Rs. 4.5 crores.

573

**Executive Engineers
Major Dam Division**

ରାଜ୍ୟ ପ୍ରଦୃଷ୍ଟ ନିୟମ ବୋଡ଼ି, ଓଡ଼ିଶା
ଏ/୧୧୮, ନୀଳକଣ୍ଠ ନଗର, ଭୁବନେଶ୍ୱର-୧୨

ବିଜ୍ଞାପନ

[illegible]

- [illegible]

ଏହି ଲେଖନୀଙ୍କର ଅନ୍ୟ ସାମାଜିକ ସେବା ସଂଗଠନମାନଙ୍କର ସହଯୋଗରେ ।
ଏ ବିଭାଗର ଅତିରିକ୍ତ ସିନିୟର ପାଇଁ ସାମାଜିକ ସେବା ସଂଗଠନମାନଙ୍କର ସହଯୋଗ, ଶିକ୍ଷାଗତ ପ୍ରଶ୍ନର
ଉତ୍ତରାଳୟ, ଉପର ସିନିୟର ଶିକ୍ଷକଙ୍କର ସହଯୋଗ ଓ ଅନ୍ୟାନ୍ୟ ସହଯୋଗ ଓ ଅନ୍ୟାନ୍ୟ ସହଯୋଗ
ଦେବାବଶ୍ୟକ । ଶିକ୍ଷକଙ୍କ ପ୍ରଶ୍ନର, ଉତ୍ତର, ଉତ୍ତର ଓ ଅନ୍ୟାନ୍ୟ ଶିକ୍ଷକଙ୍କର ସହଯୋଗ ଓ ଅନ୍ୟାନ୍ୟ
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ଅନୁଷ୍ଠାନ ଅନୁମୋଦିତ
ଅନୁମୋଦିତ ଅନୁମୋଦିତ
ଅନୁମୋଦିତ ଅନୁମୋଦିତ

ଅନୁମତି ପ୍ରାପ୍ତ

Dhivani Poudhwarani



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 Nulkipur, Madhabpur & Ghantikhal of Athgarh Taluk in the District of Cuttack, Orissa.

To obtain Environmental clearance from the Ministry of Environment & Forests, Govt. of India, the Proposer has applied to the Orissa Pollution Control Board, Bhubaneswar 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 authorized 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 local residents, environmental groups and others located at the proposed site/area of displacement/sites likely to be affected.

For the above purpose, a person will only mean :

- Any person who is likely to be affected by the grant of environmental clearance.
- Any person who owns or has control over the project with respect to which an application has been submitted for environmental clearance.
- Any association of persons whether incorporated or not likely to be affected by the project and/or functioning in the field of environment.
- 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 L.B. Athgarh, on 17.11.03 at 11.00 A.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.opcbboard.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 Parishad, Cuttack
4. In the head office of the Orissa Pollution Control Board, Parivash Bhawan, A/118, Nilakantha Nagar, Unit - VII, Bhubaneswar -12
5. Regional Office, Orissa Pollution Control Board, 56A, Surya Vihar, Link Road Cuttack
6. Department of Forest & Environment (Environment) Govt of Orissa, Bhubaneswar.
7. Office of the Mahakulabhakta & 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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Environmental Organizational Structure of Aarti Steels Ltd.,Cuttack

(Full fledged Environment Management cell consist of the following employees.)

1. Er. Ganeswar Panigrahi, B.Tech. (Mech. Engg.), PDIS, NEBOSH - D.G.M (HSE) & HOD (Environment) & Factory Manager
2. Mrs. Sanghamitra Das, M.Sc (Env. Sci.) - Dy. Manager (Environment)
3. Er. Devanand Parida, M.Tech (Env. Engg) - Asst. Manager (Environment)
4. Mr. Jyoti Rath - Sr. Officer (Environment - Horticulture)
5. Er. Soumya Ranjan Sahoo, M.Sc (Horticulture) - Officer (Horticulture)
6. Er. Sudeepta Ranjan Khatua, M.Sc (Env. Sci & Sustainable mngt.) - Engineer (Environment)
7. Mr. Santosh Kumar Khuntia, Jr Gardner
8. Mr. Harihar Samal, Env. Attendent

Head of the Environment Department directly report to **Shri. Sudipto Sadhan Paul, President.**

The organization structure of Environment Department is given below.



AARTI STEELS LIMITED

ENVIRONMENT CELL

