



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

AARTI STEELS LIMITED

City Office : Plot No. 18/1B, Sector - 10, CDA
Cuttack - 753 014, (Odisha) India
Phone : +91 - 671 - 7161000, 2309285
Fax : +91 - 671 - 7161150, 2309407
E-mail : cuttack@aartisteelsltd.com

Ref: ASL/EC-2005/Env./

31stMay,2024

To,
The APCCF(Central),
Government of India, Ministry of Environment & Forests,
Eastern Regional Office,A/3, Chandrasekharpur,
Bhubaneswar – 751023, Fax: 0674-2302432.

Subject: Submission of half-yearly Compliance report on the stipulated environmental clearance in respect of Expansion Project by Aarti Steels Limited at village Ghantikhal in Dist: Cuttack in Odisha-regarding”.

Reference:

Environmental Clearance letter no.J.11011/287/2008-IAII (I) dated 13.05.2009.

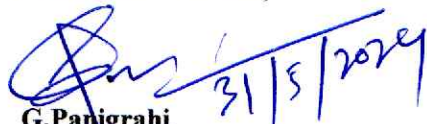
Respected Sir,

We are herewith submitting the six-monthly compliance report on the status of the implementation of the conditions stipulated in environmental clearance awarded to us vide MoEF File No: **J.11011/287/2008-IAII (I) dated 13.05.2009** in respect of Integrated Steel Plant, Cuttack, Odisha of M/s Aarti Steels Limited. for the period from October-2023 to March-2024.

With reference to above, we are herewith submitting the six-monthly compliance report along with annexures in soft & hard copy.

Thanking you,

For Aarti Steels Limited,


G. Panigrahi
(Factory Manager)

Encl: As above

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

:The Regional Director,
The Central Pollution Control Board,



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Zonal Office, TheSouthernd Conclave,
Block 502, 5th and 6th Floors, 1582 Rajdanga Main Road,
Kolkata, West Bengal 700107

: The Regional Officer,
Regional Office, State Pollution Control Board,
586, Suryavihar, Link Road, Cuttack-753012 (Odisha),
Fax: 0671-2335478

-for favour of kind information and doing the needful please.

Works : Ghantikhal, P.O. : Mahakalabasta, Via : Athagarh, Dist. : **Cuttack** - 754029 (Odisha) - India
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**Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance granted in favour of
Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for Oct'23 to Mar'24**



Half-Yearly Compliance Report

on

Environmental Clearance Conditions

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

Period: Oct'23 to Mar'24

Submitted by:

AARTI STEELS LIMITED,

**At-Ghantikhal, District: Cuttack,
Odisha.**

Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for Oct'23 to Mar'24

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Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for Oct'23 to Mar'24

| Sl. No. | Specific Conditions | Compliance Status (Oct'23 to Mar'24) |
|---------|---|--|
| A (i) | <p>The gaseous emissions from various process units should conform 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.</p> <p>At no time the emission level should go beyond the prescribed standards.</p> <p>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.</p> | <p align="center"><u>Complied</u></p> <p>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 & Ferro Alloys unit are being monitored regularly(stack monitoring reports are enclosed for reference).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 O.S.P.C.B. consent conditions we are maintaining the particulate emission from the above mentioned process units below 100 mg/Nm³ except thermal power plants(AFBC & CFBC) for which prescribed standard is 50mg/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.</p> <p>At no time the emission level goes beyond the prescribed standards as the installed pollution control devices i.e. ESPs & Bag Filters are designed to ensure emission level below the prescribed standards.</p> <p>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.</p> |
| (ii) | <p>There should be no discharge of process effluent. As reflected in the EIA/EMP report, the waste generation of 456m³/d (384m³/d of process and 72m³/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.</p> | <p align="center"><u>Complied</u></p> <p>We are not discharging any process effluent (Water Balance diagram is enclosed for reference as (Annexure-II)). The detailed water management carried out in all the process units is furnished below. Our entire process unit is adhering to Zero discharge concept by adopting water reuse.</p> <p>- POWER PLANT: Full utilization of Blow down and waste water for slurry making thereby optimizing the water requirement. We are not discharging any process effluent. The blow down water from cooling tower, Boiler, coolers & RO plant after treatment in neutralization pit is collected in waste water sump and the same is reused for slurry making. Overflow decanted water from ash slurry is collected in waste water sump and recycled. Surface run-off/spillage/plant washing water from power plant are being recycled through ESP dust handling system. Thus, the company achieves zero discharge by using treated effluent in the process</p> |

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| | <p>There shall be no discharge of water from the Coal Washery and company shall adopt closed circuit system.</p> <p>The domestic waste water after treatment in STP should be used for green belt development.</p> | <p>-COAL WASHERY: We are not discharging water from the Coal Washery. The entire floor cleaning materials of the Coal Washery is collected in the ground floor sump in the form of slurry. The slurry is pumped back in the prime reject screen from where coal & magnetite is separated. Thus we are adopting closed circuit system.</p> <p>SPONGE IRON PLANT: Sponge Iron unit utilizes water only for cooling purpose. Hot water generated from the rotary cooler get 100% recycled onto cooling process through cooling tower. Surface run-off/spillage/plant washing water from DRI plant are being recycled through bag filter dust handling system.</p> <p>SMS: The unit has been provided with cooling cum re-cycle arrangements for the cooling waste water of EAF as well LRFS, settling tank & pressure sand filters are provided in the recycling arrangement meant for the cooling wastewater of billet caster. The effluent is confined within the system hence discharge from the SMS is not envisaged.</p> <p>FAP: The unit has provided with recycling arrangements for the cooling waste water of SAF & surface run-off/effluent of Jigging & briquetting facility. Thus the company achieves zero discharge by using treated effluent in the process. Thus the company achieves zero discharge by using treated effluent in the process.</p> <p>Rolling Mill: The unit has been provided with cooling cum re-cycle arrangements for the cooling waste water of Rolling Mill, settling tank & pressure sand filters are provided in the recycling arrangement meant for the cooling waste water of the mill. The effluent is confined within the system hence discharge from the mill is not envisaged.</p> <p>We are not discharging water from the Coal Washery. The entire floor cleaning materials of the Coal Washery is collected in the ground floor sump in the form of slurry. The slurry is pumped back in the prime reject screen from where coal & magnetite is separated. Thus, we are adopting closed circuit system.</p> <p>Domestic effluent of Factory premises and colony were discharged to individual soak pits via septic tanks. However, as part of water Conservation measures we have already installed STPs at colonies, rolling mill, canteen & office complex. The domestic waste water after treatment in STP are being used for dust suppression/green belt development.</p> |
| (iii) | In plant control measures for checking fugitive emission from spillage of raw materials handling should be provided. | <p align="center"><u>Complied</u></p> <p>Fugitive emission generation points like various stock house, material transfer and junction points, product hoppers have been provided with appropriate suction device connected to</p> |

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| | | <p>bag filter.</p> <p>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 arm sprinklers for Coal & Iron Stock Yard.</p> <p>In addition to above,</p> <ul style="list-style-type: none"> -Regular water Spraying & cleaning is being practiced on the internal roads. All major internal roads of approx.6.7 KM length have already been blacktopped. -We have installed arm sprinklers for dust suppression at Coal & Iron Yard, Coal Washery area for dust suppression. -We have provided rotating 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. -We have already installed rotating sprinklers in FAP unit. -Adequate dust handling system at the hoppers of CFBC (ESP), AFBC ESP, WHRB ESPs & DRI Bag Filters has already been installed & operating satisfactorily. Collected dust/ash in silos is being disposed off to cement plants/abandoned quarry pits. - 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. <p>However, in order to improve the AAQ in and around our plant premises, further, we have installed additional two nos of Bag Filters (Cap:85000m³/hr & 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 satisfactorily.</p> |
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| | <p>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.</p> <p>Data on fugitive emissions should be regularly monitored and records maintained.</p> | <p align="center"><u>Complied</u></p> <p>Swiveling canopy hood over the induction 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</p> <p>Fumes coming out from EAF at around 1200 °C is diluted and cooled in water cooled duct, gas cooler & mixing chamber to 120°C before entry to baghouse for cleaning. Swiveling canopy hood over the ladle refining furnaces (2 sets) has been provided. The furnace gas is passed through mixing chamber. The fumes of EAF & LRFs after passing through common mixing chamber at a temp. of about 120 °C is cleaned in a common bag filter & discharged to atmosphere through a common stack of height of 40 meter and at a particulate matter concentration below 100 mg/Nm³.</p> <p>Data on fugitive emission monitoring is enclosed at (Annexure-III) for reference.</p> |
| (iv) | <p>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.</p> <p>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.</p> | <p align="center"><u>Complied</u></p> <p>2x10MW Waste heat recovery boilers 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 & 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.</p> <p>Shall be Complied along with the installation of blast furnace.</p> |
| (v) | <p>Pressure drop measuring system across the bag filters should be installed.</p> <p>Particulate matter emissions should be measured hourly besides continuous monitoring.</p> | <p align="center"><u>Complied</u></p> <p>Pressure drop measuring system across the bag filters has already been installed.As per OSPCB direction, we have already installed 4 nos online continuous ambient air quality monitoring stations (MOEF approved methodology & USEPA approved equipment) for measuring the parameters such as PM₁₀,PM_{2.5},SO₂,NO_x,CO and online continuous stack</p> |

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| | | emission monitoring system for all power plant ESP stacks for measuring the parameters such as PM,SO ₂ ,NO _x & GCP(bag filter) stacks for measuring the parameters such as PM. Further, we have installed RT-DAS for AAQ and Stacks & uploaded real time data to the OSPCB & CPCB server through M/s Phoenix Robotics, Rourkela & M/s ENVEA India Private Limited, Thane respectively. For remaining parameters & for on line system calibration purpose we are carrying out Env. monitoring & Analysis through M/s Mitra S.K.Private Limited (NABL & MoEF authorized laboratory & OSPCB empaneled consultant). Monitoring Reports attached as (Annexure-IV). |
| (vi) | Proper acoustic enclosures should be installed to control noise load from the DG sets as per EPA standards. | <p align="center"><u>Complied</u></p> <p>DG set has 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.</p> |
| (vii) | Company should keep proper housekeeping within the plant premises. | <p align="center"><u>Complied</u></p> <p>Proper House Keeping with in 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.</p> |
| (viii) | The company shall prepare time bound action plan for solid waste management and submit to the Ministry within three months. | <p align="center"><u>Complied</u></p> <p>We have taken the following measures to reduce solid waste generation, its proper utilization and disposal:</p> <p>Adequate pneumatic dust handling system at the hoppers of CFBC (ESP), AFBC (ESP), WHRB (ESPs) & DRI Bag Filters has already been installed & operating satisfactorily.</p> <p>-Installed adequate pneumatic dust collection system at bag filter attached to EAF & LRF followed by pug mill.</p> <p>-Collected dust from FAP Bag Filter is being utilized for Briquette making.</p> <p>-Dust & Solid waste removal being carried out on regular basis by using loader, tractor/tipper etc.</p> <p>- The solid waste generated is being suitably disposed off within the premises without creating any dust nuisance or environmental contamination.</p> <p>In addition to above, we have taken the following measures to further reduce solid waste generation, its proper utilization and disposal:</p> |

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| | | <p>-Constructed a new coal screening building at a cost of approx. 3 Crores for screening of coal fines of 4 mm and routing the same to boiler without passing through washery. As a result, waste fines generated in the washery has been reduced from 12% to 3% (approx.)</p> <p>-Middlings and rejects of coal washery are being used as fuel in boiler for generation of steam. Char generated is being utilized in AFBC & CFBC power plant to the extent possible. The utilization will be more if CFBC plant will be in continuous operation. 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-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.</p> <p>-Utilizing -1 mm microfines of coal in our CFBC Boiler.</p> <p>-Installed briquette plant for briquette making utilizing bag filter chrome dust.</p> <p>-DRI Bag filter dust is being utilized in Kiln firing to the extent possible.</p> <p>-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. to the maximum extent inside our plant premises & balance is being dumped on designated dump site inside the factory premises.</p> <p>Solid waste Management Report attached as Annexure-V.</p> <p><u>Infrastructure & Mechanism</u></p> <p>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 & 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.</p> |
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Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for Oct'23 to Mar'24

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| | | <p><u>FLY ASH MGMT</u></p> <p>We have achieved 100% utilization during 2023-24 by supplying to Brick Plants, Cement Plant & land filling. Flyash utilization report attached as Annexure-VI.</p> |
| (ix) | A green belt shall be developed in an area of 100 ha. of plant area as per the CPCB guidelines. | <p align="center"><u>Complied</u></p> <p>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 93528 nos of trees have been planted in planned way to cover the sprawling factory premises for ecological balance covering an area of 38.97 Ha @ 2400 nos of trees per Ha . Out of 283.4 Ha of our total plant area approx. 71.5 Ha with 171600 trees is already covered under thick plantation since beginning of the project. We are also taking the maintenance of these existing plantations. Hence out of 283.4 Ha, total 111.5 Ha (39.4%) is already covered under plantation and only 31.7 Ha area is available for existing plant and upcoming project. However, plantation in vacant areas has already been undertaken. The non covered areas are being planted in phased manner. 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-VII.</p> |
| (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. | <p align="center"><u>Complied</u></p> <p>In consultation with IIT, Kharagpur, we have already constructed surface run-off rain water harvesting pit of size (83mx73mx5m) for surface run off & 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.</p> |
| (xi) | Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act. | <p align="center"><u>Complied</u></p> <p>Occupational Health Surveillance of the workers is being done once in a year and records are maintained as per the Factories Act.</p> |
| (xii) | Recommendations made in the CREP should be implemented. | <p align="center"><u>Complied</u></p> <p>The CREP recommendation compliance/action plan report is enclosed vide (Annexure-VIII).</p> |

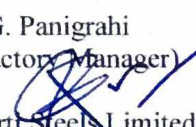
| Sl. No. | General Conditions | Compliance Status (Oct'23 to Mar'24) |
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| B (i) | The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board and the State Government. | Accepted. |

Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for Oct'23 to Mar'24

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| (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) | <p>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, SO₂ and NO_x are anticipated in consultation with the State Pollution Control Board / Central Pollution Control Board once in six months.</p> <p>Data on ambient air quality and stack emission should be submitted to this ministry including its regional office at Bhubaneswar and the SPCB/CPCB once in six months.</p> | <p align="center">Complied</p> <p>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.</p> <p>Data on ambient air quality monitored for the parameters PM₁₀, PM_{2.5}, SO₂ and NO_x, CO and Data on Stack air quality monitored for the parameters PM, SO₂, NO_x, temperature and velocity for running plants is being submitted once in six months.</p> |
| (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. | <p align="center">Complied</p> <p>Since the Industrial waste water is not being discharged outside and is being utilized inside our plant for slurry making and plantation purpose as detailed above in point no.(ii) of specific conditions, hence the standards prescribed under GSR 422(E) dated 19th May,1993 and 31st December,1993 or as amended from time to time is not applicable to our case.</p> |
| (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) | <p align="center">Complied</p> <p>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-IX.</p> |
| (vi) | <p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report.</p> <p>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.</p> | <p align="center">Complied</p> <p>All the environment protection measures and safeguards recommended in the EIA/EMP report are being complied in a phased manner.</p> <p>Social infrastructure and peripheral development work report done so far has been attached vide Annexure-X.</p> <p>Further regarding health care- regular health checkup of local people of Dhurusia, Mahakalabasta, Ghantikhal & Kakhadi villages are being carried out by our company Doctor &</p> |

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| | | 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. | Complied Please refer Annexure-XI 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 31.03.2024 by Aarti Steels Limited, Ghantikhal is enclosed vide Annexure-XII . |
| (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. | Complied 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. |
| (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. | Complied Already Complied (copy of the advertisement is enclosed as annexure-XIII 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 & Control of Pollution) Act, 1974, the Air (Prevention & 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

Annexure-I

**PHASE WISE DEVELOPMENT OF PROJECT AND PROGRESS ON
THE CONSTRUCTION OF THE PROJECT & MILE STONE**

| Product Portfolio (Proposed capacities) | Item | Capacity | Status | Expected Target |
|--|--------------------|-----------------|-------------------------------|------------------------|
| | Power Plant | 50 MW | Commissioned in March, 2010 | |
| | Ferro-Alloys Plant | 25000 TPA | Commissioned in October,2016. | |
| | Power Plant | 60 MW | Yet to be Installed. | |
| | Sinter Plant | 343000 TPY | Yet to be Installed. | |
| | Coke Oven Plant | 236000 TPY | Yet to be Installed. | |
| | DRI Plant | 2x500 TPD | Yet to be Installed. | |
| | Coal Washery | 1.0 MTPA | Yet to be Installed. | |

Annexure - II

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/513
Date : 09.02.2024
Sample No. : MSKGL/ED/2023-24/01/00650
Sample Description : Flue Gas Monitoring
Date of Sampling : 22.01.2024
Time of Sampling : 04:22 PM

ANALYSIS RESULT

| | | | | |
|--|--|--------------------------|---------------------------------------|--------------------------|
| A. General information about stack : | | | | |
| 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. Physical characteristics of stack : | | | | |
| 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. 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 | Method |
| 1. | Temperature of Emission (°C) | 127 | | EPA Part 2 |
| 2. | Barometric pressure (mm of Hg) | 750 | | EPA Part 2 |
| 3. | Velocity of gas (m/sec.) | 9.12 | | EPA Part 2 |
| 4. | Quantity of Gas Flow (Nm ³ /hr) | 200128 | | EPA Part 2 |
| 5. | Concentration of Carbon Dioxide (% v/v) | 5.1 | | IS 13270:1992 |
| 6. | Concentration of Oxygen (% v/v) | 15.0 | | IS 13270:1992 |
| 7. | Concentration of Carbon Monoxide (% v/v) | <0.2 | 1 % | IS 13270:1992 |
| 8. | Concentration of Mercury (mg/Nm3) | 0.012 | 0.03 | IS 13270:1992, Reaf:2009 |
| 9. | Concentration of Sulphur Dioxide (mg/Nm3) | 456.8 | 600 | USEPA Part-6-25/09/1996 |
| 10. | Concentration of Nitrogen Oxides (mg/Nm3) | 298.4 | 450 | USEPA Part-7-12/03/1996 |
| 11. | Concentration of Particulate Matters (mg/Nm ³) | 48.4 | 50 | USEPA Part-5-16/08/1996 |
| 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

Authorized Signatory

H.O.: Shrachi Centre (5th Floor), 74B, Acharya Jagadish Chandra Bose Road, Kolkata - 700 016, West Bengal, India
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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/507

Date : 10.03.2024

Sample No. : MSKGL/ED/2023-24/02/00508


Sample Description : Flue Gas Monitoring

Date of Sampling : 08.02.2024

Time of Sampling : 04:12 PM

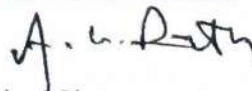
ANALYSIS RESULT

| | | | |
|---|--|-------------------------------------|---------------------------------------|
| A. General information about stack : | | | |
| 1. | Stack connected to | FAP 1x18 MVA | |
| 2. | Emission due to | Burning of Coke, Briquette & Quartz | |
| 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. | Diameter of the stack at sampling point | 2.5 m | |
| 2. | Area of stack | 4.9107 m ² | |
| C. Analysis/Characteristic of stack: | | | |
| 1. | Fuel used : Coke, Briquette & Quartz | 2. Fuel Consumption : NA | |
| D. Results of sampling & analysis of gaseous emission | | Result | Prescribed standard as per CTO |
| | | | Method |
| 1. | Temperature of Emission (°C) | 76 | IS 11255 (Part-III),2008RA |
| 2. | Barometric pressure (mm of Hg) | 759 | Lab Method |
| 3. | Velocity of gas (m/sec.) | 10.23 | IS 11255 (Part-III),2008RA |
| 4. | Quantity of Gas Flow (Nm ³ /hr) | 152578 | IS 11255 (Part-III),2008RA |
| 5. | Concentration of Carbon monoxide (% v/v) | <0.2 | 1 % |
| 6. | Concentration of Carbon Dioxide (% v/v) | 5.6 | IS 13270:1992 |
| 7. | Concentration of Oxygen (% v/v) | 15.4 | IS 13270:1992 |
| 8. | Concentration of Sulphur Dioxide (mg/Nm3) | 245.0 | IS 11255 (Part-II),1985, RA 2014 |
| 9. | Concentration of Nitrogen Oxides (mg/Nm3) | 170.0 | IS 11255 (Part-II),2005, RA 2017 |
| 10. | Concentration of Particulate Matters (mg/Nm ³) | 86.2 | 100 |
| 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

Plot No-687/2428 Ekamra Villa Square
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TEST REPORT

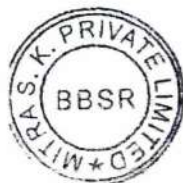
Name & Address of the Customer :
AARTI STEELS LIMITED*
Ghantikhal, Athagarh, Cuttack

Report No. : BBS/517
Date : 09.02.2024
Sample No. : MSKGL/ED/2023-24/01/00472
Sample Description : Ambient Air Monitoring
Sampling Location : Near Security 14
Date of Sampling : 23.01.2024

ANALYSIS RESULT

| Sl. No | POLLUTANT | RESULT | LIMIT | METHOD OF TEST REFERENCE |
|---|--|--------|-------|---|
| 1. | Particulate matter (<10 μ m) in μ g/m ³ | 60.0 | 100 | IS: 5182 (Part-23)-2006 |
| 2. | Particulate matter (<2.5 μ m) in μ g/m ³ | 24.3 | 60 | USEPA CFR-40, Part-50, Appendix-L |
| 3. | Sulphur dioxide (SO ₂) in μ g/m ³ | 9.6 | 80 | IS: 5182 (Part-2)-2001 |
| 4. | Nitrogen dioxide (NO ₂) in μ g/m ³ | 28.5 | 80 | IS: 5182 (Part-6)-2006 |
| 5. | Carbon monoxide (CO) in mg/m ³ | 0.48 | 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 | <10.0 | 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

Plot No-687/2428 Ekamra Villa Square,
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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/518
Date : 09.02.2024
Sample No. : MSKGL/ED/2023-24/01/00473
Sample Description : Ambient Air Monitoring
Sampling Location : Guest House
Date of Sampling : 23.01.2024

ANALYSIS RESULT

| Sl. No | POLLUTANT | RESULT | LIMIT | METHOD OF TEST REFERENCE |
|---|--|--------|-------|--|
| 1. | Particulate matter (<10 μ m) in μ g/m ³ | 58.4 | 100 | IS: 5182 (Part-23)-2006 |
| 2. | Particulate matter (<2.5 μ m) in μ g/m ³ | 27.0 | 60 | USEPA CFR-40, Part-50, Appendix-L |
| 3. | Sulphur dioxide (SO ₂) in μ g/m ³ | 6.4 | 80 | IS: 5182 (Part-2)-2001 |
| 4. | Nitrogen dioxide (NO ₂) in μ g/m ³ | 30.3 | 80 | IS: 5182 (Part- 6)-2006 |
| 5. | Carbon monoxide (CO) in mg/m ³ | 0.32 | 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 | <10.0 | 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

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 : 10.03.2024
Sample No. : MSKGL/ED/2023-24/02/00471
Sample Description : Ambient Air Monitoring
Sampling Location : Bachelors Colony
Date of Sampling : 08.02.2024

ANALYSIS RESULT

| Sl. No | POLLUTANT | RESULT | LIMIT | METHOD OF TEST REFERENCE |
|--------|--|--------|-------|---|
| 1. | Particulate matter (<10 μ m) in μ g/m ³ | 72.1 | 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 | 7.4 | 80 | IS: 5182 (Part-2)-2001 |
| 4. | Nitrogen dioxide (NO ₂) in μ g/m ³ | 26.8 | 80 | IS: 5182 (Part- 6)-2006 |
| 5. | Carbon monoxide (CO) in mg/m ³ | 0.57 | 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 | <10.0 | 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

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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
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TEST REPORT

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

Report No. : BBS/508
Date : 10.03.2024
Sample No. : MSKGL/ED/2023-24/02/00470
Sample Description : Ambient Air Monitoring
Sampling Location : Near Water Reservoir
Date of Sampling : 08.02.2024

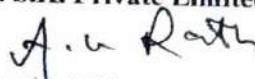
ANALYSIS RESULT

| Sl. No | POLLUTANT | RESULT | LIMIT | METHOD OF TEST REFERENCE |
|---|--|--------|-------|---|
| 1. | Particulate matter (<10 μ m) in μ g/m ³ | 82.4 | 100 | IS: 5182 (Part-23)-2006 |
| 2. | Particulate matter (<2.5 μ m) in μ g/m ³ | 39.0 | 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 | 27.8 | 80 | IS: 5182 (Part-6)-2006 |
| 5. | Carbon monoxide (CO) in mg/m ³ | 0.64 | 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

H.O.: Shrachi Centre (5th Floor), 74B, Acharya Jagadish Chandra Bose Road, Kolkata - 700 016, West Bengal, India
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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

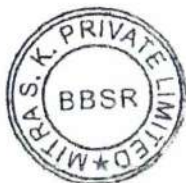
Name & Address of the Customer :
AARTI STEELS LIMITED
Ghantikhal, Athagarh, Cuttack

Report No. : BBS/515
Date : 09.02.2024
Sample No. : MSKGL/ED/2023-24/01/00470
Sample Description : Ambient Air Monitoring
Sampling Location : Resin Pit Area
Date of Sampling : 22.01.2023

ANALYSIS RESULT

| Sl. No | POLLUTANT | RESULT | LIMIT | METHOD OF TEST REFERENCE |
|---|--|--------|-------|---|
| 1. | Particulate matter (<10 μ m) in μ g/m ³ | 76.2 | 100 | IS: 5182 (Part-23)-2006 |
| 2. | Particulate matter (<2.5 μ m) in μ g/m ³ | 30.0 | 60 | USEPA CFR-40, Part-50, Appendix-L |
| 3. | Sulphur dioxide (SO ₂) in μ g/m ³ | 10.0 | 80 | IS: 5182 (Part-2)-2001 |
| 4. | Nitrogen dioxide (NO ₂) in μ g/m ³ | 32.2 | 80 | IS: 5182 (Part- 6)-2006 |
| 5. | Carbon monoxide (CO) in mg/m ³ | 0.57 | 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 | <10.0 | 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

Plot No-687/242R 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

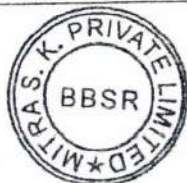
Report No. : BBS/516
Date : 09.02.2024
Sample No. : MSKGL/ED/2023-24/01/00471
Sample Description : Ambient Air Monitoring
Sampling Location : Hazardous Waste Oil Storage Area
Date of Sampling : 22.01.2024

ANALYSIS RESULT

| Sl. No | POLLUTANT | RESULT | LIMIT | METHOD OF TEST REFERENCE |
|--------|--|--------|-------|---|
| 1. | Particulate matter (<10 μ m) in μ g/m ³ | 84.6 | 100 | IS: 5182 (Part-23)-2006 |
| 2. | Particulate matter (<2.5 μ m) in μ g/m ³ | 26.1 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3. | Sulphur dioxide (SO ₂) in μ g/m ³ | 12.4 | 80 | IS: 5182 (Part-2)-2001 |
| 4. | Nitrogen dioxide (NO ₂) in μ g/m ³ | 36.8 | 80 | IS: 5182 (Part- 6)-2006 |
| 5. | Carbon monoxide (CO) in mg/m ³ | 0.63 | 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 | 12.7 | 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

H.O.: Shrachi Centre (5th Floor), 74B, Acharya Jagadish Chandra Bose Road, Kolkata - 700 016, West Bengal, India
T: 91 33 4014 3000 / 2265 0006 / 2265 0007, F: 91 33 2265 0008, E: info@mitrask.com, W: www.mitrask.com

Plot No-687/2428, Ekamra Villa Scheme,
Jaydev Vihar, 1 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/507
Date : 27.10.2023
Sample No. : MSKGI/ED/2023-24/10/00933
Sample Description : Effluent Water
Sampling Location : STP Outlet (Rolling Mill
Capacity 10 KLD)
Date of sampling : 05.10.2023

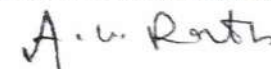
ANALYSIS RESULT

| 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 | 3.9 |
| 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 | 390.0 |

Prepared By:- 

For Mitra S.K. Private Limited




Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1 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/506

Date : 27.10.2023

Sample No. : MSKGL/ED/2023-24/10/00932

Sample Description : Effluent Water

**Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)**

Date of sampling : 05.10.2023

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 | 7.25 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 16.0 |
| 3. | Biochemical Oxygen Demand (as BOD) | mg/l | APHA(23 rd Edtn.)5210B | <30 | 26.0 |
| 4. | Faecal Coliform | MPN/100ml | APHA(23 rd Edtn.)9221E | <1000 | 480.0 |

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,
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/505
Date : 27.10.2023
Sample No. : MSKGL/ED/2023-24/10/00931
Sample Description : Effluent Water
Sampling Location : STP Outlet (Near Staff
Canteen Capacity 10 KLD)
Date of sampling : 05.10.2023

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 | 7.32 |
| 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 | 14.0 |
| 4. | Faecal Coliform | MPN/100ml | APHA(23 rd Edtn.)9221E | <1000 | 420.0 |

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
[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/504

Date : 27.10.2023

Sample No. : MSKGL/ED/2023-24/10/00930

Sample Description : Effluent Water

Sampling Location : STP Outlet (Inside Staff

Colony Capacity 200 KLD)

Date of sampling : 05.10.2023

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 | 7.19 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 2.8 |
| 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 | 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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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/503
Date : 12.12.2023
Sample No. : MSKGL/ED/2023-24/11/00933
Sample Description : Effluent Water
Sampling Location : STP Outlet (Rolling Mill
Capacity 10 KLD)
Date of sampling : 14.11.2023

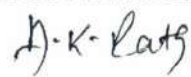
ANALYSIS RESULT

| 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 | 7.32 |
| 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 | 10.0 |
| 4. | Faecal Coliform | MPN/100ml | APHA(23 rd Edtn.)9221E | <1000 | 320.0 |


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
[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/502

Date : 12.12.2023

Sample No. : MSKGL/ED/2023-24/11/00932

Sample Description : Effluent Water

Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)


Date of sampling: 14.11.2023

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 | 6.98 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 11.0 |
| 3. | Biochemical Oxygen Demand (as BOD) | mg/l | APHA(23 rd Edtn.)5210B | <30 | 7.4 |
| 4. | Faecal Coliform | MPN/100ml | APHA(23 rd Edtn.)9221E | <1000 | 380.0 |


Prepared By:

For Mitra S.K. Private Limited


Authorized Signatory



Mitra S. K. Private Limited

Plot No-687/2428 Ekamra Villa Square,
Jaydev Vihar, 1 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/501

Date : 12.12.2023

Sample No. : MSKGL/ED/2023-24/11/00931

Sample Description : Effluent Water

Sampling Location : STP Outlet (Near Staff

Canteen Capacity 10 KLD)

Date of sampling : 14.11.2023

ANALYSIS RESULT

| SL. No. | Test Parameters | Unit | Test Method / Specification | STP Outlet standard as per CTO | Result |
|---------|------------------------------------|-----------|---------------------------------------|--------------------------------|--------|
| 1. | pH value at 26°C | --- | APIHA(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 | 15.0 |
| 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 | 360.0 |

S. K. Ganguly
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,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]



T : (0674) 2360917, 9777450189

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TEST REPORT

Name & Address of the Customer :

AARTI STEELS LIMITED

Ghantikhal, Athagarh, Cuttack

Report No. : BBS/500

Date : 12.12.2023

Sample No. : MSKGL/ED/2023-24/11/00930

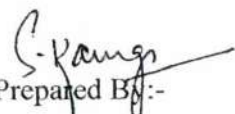
Sample Description : Effluent Water

Sampling Location : STP Outlet (Inside Staff Colony Capacity 200 KLD)

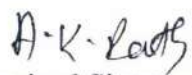
Date of sampling : 14.11.2023

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 | 6.85 |
| 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 | 3.6 |
| 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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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/203

Date : 24.01.2024

Sample No. : MSKGL/ED/2023-24/12/00247

Sample Description : Effluent Water

Sampling Location : STP Outlet (Rolling Mill
Capacity 10 KLD)

Date of sampling : 05.12.2023

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 | <2.5 |
| 3. | Biochemical Oxygen Demand (as BOD) | mg/l | APHA(23 rd Edtn.)5210B | <30 | 1.7 |
| 4. | Faecal Coliform | MPN/100ml | APHA(23 rd Edtn.)9221E | <1000 | 220.0 |

Prepared By:



For Mitra S.K. Private Limited

A. K. Pathy
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/202

Date : 24.01.2024

Sample No. : MSKGL/ED/2023-24/12/00246

Sample Description : Effluent Water

Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)

Date of sampling : 05.12.2023

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 | 6.94 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 23.6 |
| 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 | 610.0 |

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,
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/201
Date : 24.01.2024
Sample No. : MSKGL/ED/2023-24/12/00245
Sample Description : Effluent Water
Sampling Location : STP Outlet (Near Staff
Canteen Capacity 10 KLD)
Date of sampling : 05.12.2023

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 | 14.6 |
| 3. | Biochemical Oxygen Demand (as BOD) | mg/l | APHA(23 rd Edtn.)5210B | <30 | 18.2 |
| 4. | Faecal Coliform | MPN/100ml | APHA(23 rd Edtn.)9221E | <1000 | 370.0 |

Prepared By:-



For Mitra S.K. Private Limited

A. W. Rath
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 : 24.01.2024
Sample No. : MSKGL/ED/2023-24/12/00244
Sample Description : Effluent Water
Sampling Location : STP Outlet (Inside Staff Colony Capacity 200 KLD)
Date of sampling : 05.12.2023

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 | 7.1 |
| 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 | 17.0 |
| 4. | Faecal Coliform | MPN/100ml | APHA(23 rd Edtn.)9221E | <1000 | 550.0 |

Prepared By:-



For Mitra S.K. Private Limited

Authorized Signatory

Mitra S. K. Private Limited



Plot No-687/242B Ekamra Villa Square
Jaydev Vihar, 1st Floor, IRC Village
Bhubaneswar, Khordha, Odisha-751015
[CIN : U51909WB1956PTC023037]

T : (0674) 2360917, 9777450189
F : (0674) 2362918

TEST REPORT

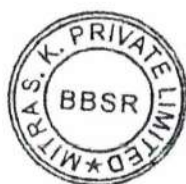
Name & Address of the Customer :
AARTI STEELS LIMITED
Ghantikhal, Athagarh, Cuttack

Report No. : BBS/508
Date : 09.02.2024
Sample No. : MSKGL/ED/2023-24/07/01053
Sample Description : Effluent Water
Sampling Location : STP Outlet (Rolling Mill
Capacity 10 KLD)
Date of sampling : 24.01.2024

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 | 9.0 |
| 3. | Biochemical Oxygen Demand (as BOD) | mg/l | APHA(23 rd Edtn.)5210B | <30 | 10.0 |
| 4. | Faecal Coliform | MPN/100ml | APHA(23 rd Edtn.)9221E | <1000 | 540.0 |

Prepared By:-



For Mitra S.K. Private Limited

A. K. Datta
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/507
Date : 09.02.2024
Sample No. : MSKGL/ED/2023-24/01/01052
Sample Description : Effluent Water
Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)
Date of sampling : 24.01.2024

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 | 7.32 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 31.0 |
| 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 | 520.0 |

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,
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/506

Date : 09.02.2024

Sample No. : MSKGI/ED/2023-24/01/01051


Sample Description : Effluent Water

Sampling Location : STP Outlet (Near Staff
Canteen Capacity 10 KLD)

Date of sampling : 24.01.2024

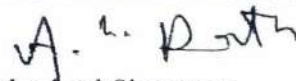
ANALYSIS RESULT

| 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 | 7.63 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 13.0 |
| 3. | Biochemical Oxygen Demand (as BOD) | mg/l | APHA(23 rd Edtn.)5210B | <30 | 22.0 |
| 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,
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/505
Date : 09.02.2024
Sample No. : MSKGL/ED/2023-24/01/01050
Sample Description : Effluent Water
Sampling Location : STP Outlet (Inside Staff
Colony Capacity 200 KLD)
Date of sampling : 24.01.2024

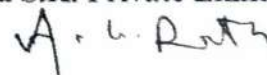
ANALYSIS RESULT

| 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 | 7.17 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 14.8 |
| 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 | 390.0 |

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
[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/503
Date : 10.03.2024
Sample No. : MSKGL/ED/2023-24/02/01053
Sample Description : Effluent Water
Sampling Location : STP Outlet (Rolling Mill
Capacity 10 KLD)
Date of sampling : 08.02.2024

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 | 7.5 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 26.0 |
| 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 | 120.0 |

Prepared By:-



For Mitra S.K. Private Limited

Authorized Signatory

Mitra S. K. Private Limited

Plot No-667/2428, 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/502
Date : 10.03.2024
Sample No. : MSKGL/ED/2023-24/02/01052
Sample Description : Effluent Water
Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)
Date of sampling : 08.02.2024

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 | 7.29 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 42.0 |
| 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 | 480.0 |

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,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]



T : (0674) 2360917, 9777450189
F : (0674) 2362918


TEST REPORT

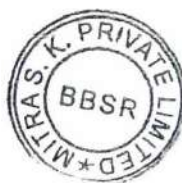
Name & Address of the Customer :
AARTI STEELS LIMITED
Ghantikhal, Athagarh, Cuttack

Report No. : BBS/501
Date : 10.03.2024
Sample No. : MSKGL/ED/2023-24/02/01051
Sample Description : Effluent Water
Sampling Location : STP Outlet (Near Staff
Canteen Capacity 10 KLD)
Date of sampling : 08.02.2024

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 | 7.30 |
| 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 | 15.0 |
| 4. | Faecal Coliform | MPN/100ml | APHA(23 rd Edtn.)9221E | <1000 | 330.0 |

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,
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/500

Date : 10.03.2024

Sample No. : MSKGL/ED/2023-24/02/01050

Sample Description : Effluent Water

Sampling Location : STP Outlet (Inside Staff

Colony Capacity 200 KLD)

Date of sampling : 08.02.2024

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 | 7.25 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 38.0 |
| 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 | 310.0 |

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,
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/602

Date : 16.04.2024

Sample No. : MSKGL/ED/2023-24/03/01167

Sample Description : Effluent Water

Sampling Location : STP Outlet (Bachelor Colony
Capacity 200 KLD)

Date of sampling : 28.03.2024

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 | 77.0 |
| 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 | 790 |

Prepared By:-



For Mitra S.K. Private Limited

A. K. Singh
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/601
Date : 16.04.2024
Sample No. : MSKGL/ED/2023-24/03/01166
Sample Description : Effluent Water
Sampling Location : STP Outlet (Near Staff
Canteen Capacity 10 KLD)
Date of sampling : 28.03.2024

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 | 7.19 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 44.0 |
| 3. | Biochemical Oxygen Demand (as BOD) | mg/l | APHA(23 rd Edtn.)5210B | <30 | 23.0 |
| 4. | Faecal Coliform | MPN/100ml | APHA(23 rd Edtn.)9221E | <1000 | 410 |

Prepared By:-



For Mitra S.K. Private Limited

D. K. Das
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/600
Date : 16.04.2024
Sample No. : MSKGL/ED/2023-24/03/01165
Sample Description : Effluent Water
Sampling Location : STP Outlet (Inside Staff Colony Capacity 200 KLD)
Date of sampling : 28.03.2024

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 | 6.98 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 68.4 |
| 3. | Biochemical Oxygen Demand (as BOD) | mg/l | APHA(23 rd Edtn.)5210B | <30 | 23.0 |
| 4. | Faecal Coliform | MPN/100ml | APHA(23 rd Edtn.)9221E | <1000 | 520 |

Prepared By:-



For Mitra S.K. Private Limited

A. K. Adhikari
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/607
Date : 16.04.2024
Sample No. : MSKGL/ED/2023-24/03/01167
Sample Description : Effluent Water
Sampling Location : STP Outlet (Rolling Mill
Capacity 10 KLD)
Date of sampling : 28.03.2024

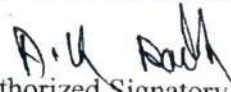
ANALYSIS RESULT

| 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 | 7.5 |
| 2. | Total Suspended Solids (as TSS) | mg/l | APHA(23 rd Edtn.)2540D | <100 | 28.0 |
| 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 | 280 |

Prepared By: 



For Mitra S.K. Private Limited


Authorized Signatory

Plot No. 687/24/B, Lakshmi 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/503
Date : 27.10.2023
Sample No. : MSKGL/ED/2023-24/10/00780
Sample Description : Ambient Noise

ANALYSIS RESULT

| Sl. No | Sampling Date | Sampling Location | Results in dB(A) | |
|--------|---------------|---------------------------------|------------------|------------|
| | | | Day Time | Night Time |
| 1. | 05.10.2023 | Central Store | 54.1 | 42.7 |
| 2. | 05.10.2023 | Switch Yard | 67.6 | 47.8 |
| 3. | 05.10.2023 | Workers Colony | 45.3 | 38.1 |
| 4. | 05.10.2023 | Railway Siding | 72.8 | 51.4 |
| 5. | 05.10.2023 | Weigh Bridge | 64.7 | 44.8 |
| 6. | 05.10.2023 | Guest House | 42.4 | 36.9 |
| 7. | 05.10.2023 | Main Gate | 62.7 | 43.2 |
| 8. | 05.10.2023 | Staff Colony | 50.8 | 37.9 |
| 9. | 05.10.2023 | Admin. Building | 49.2 | 36.4 |
| 10. | 05.10.2023 | safety excellence Centre | 57.9 | 41.8 |
| 11. | 05.10.2023 | Traffic point near coal washery | 54.8 | 49.4 |
| 12. | 05.10.2023 | Dispensary | 44.9 | 36.2 |
| 13. | 05.10.2023 | Canteen | 52.5 | 40.2 |

| 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



A. V. Rath
Authorized Signatory

H.O.: Shrachi Centre (5th Floor), 74B, Acharya Jagadish Chandra Bose Road, Kolkata - 700 016, West Bengal, India
T: 91 33 4014 3000 / 2265 0006 / 2265 0007, F: 91 33 2265 0008, E: info@mitrask.com, W: www.mitrask.com

Report No: BBS/502

Date: 27.10.2023

| | | | |
|-----|------------|---------------------------|------|
| 17. | 04.10.2023 | DRI Cooler Discharge Area | 60.9 |
| 18. | 04.10.2023 | DG Set (Power Plant) | 82.2 |
| 19. | 04.10.2023 | CFBC Boiler | 71.7 |
| 20. | 04.10.2023 | AFBC Boiler | 73.2 |
| 21. | 04.10.2023 | WHRB 1 Boiler | 61.9 |
| 22. | 04.10.2023 | WHRB 2 Boiler | 74.6 |
| 23. | 04.10.2023 | TG Set | 84.2 |
| 24. | 04.10.2023 | Air Compressor | 62.1 |
| 25. | 04.10.2023 | Rolling Mill Area | 72.8 |

| 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

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/502
Date : 27.10.2023
Sample No. : MSKGL/ED/2023-24/10/00700
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. | 04.10.2023 | SMS LRF | 64.2 |
| 2. | 04.10.2023 | SMS EAF | 68.1 |
| 3. | 04.10.2023 | SMS CCM | 70.6 |
| 4. | 04.10.2023 | IOC Terax Crusher Area | 65.9 |
| 5. | 04.10.2023 | IOC Screen Building | 60.4 |
| 6. | 04.10.2023 | CHP 400 TPH Crusher | 72.6 |
| 7. | 04.10.2023 | CHP 220 TPH Crusher | 62.9 |
| 8. | 04.10.2023 | FAP 1x18 mva Furnace GF | 71.2 |
| 9. | 04.10.2023 | FAP 1x18 MVA Compressor Room | 73.6 |
| 10. | 04.10.2023 | FAP 2x9 MVA Furnace GF | 67.8 |
| 11. | 04.10.2023 | FAP 2x9 MVA Compressor Room | 70.4 |
| 12. | 04.10.2023 | Briquetting Mixture Machine | 64.3 |
| 13. | 04.10.2023 | Briquetting Drier | 77.8 |
| 14. | 04.10.2023 | DRI Kiln 1 | 62.4 |
| 15. | 04.10.2023 | DRI Kiln 2 | 64.6 |
| 16. | 04.10.2023 | DRI Bagging Area | 66.2 |

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/504
Date : 12.12.2023
Sample No. : MSKGL/ED/2023-24/11/00280
Sample Description : Ambient Noise

ANALYSIS RESULT

| Sl. No | Sampling Date | Sampling Location | Results in dB(A) | |
|--------|---------------|---------------------------------|------------------|------------|
| | | | Day Time | Night Time |
| 1. | 14.11.2023 | Central Store | 52.8 | 40.1 |
| 2. | 14.11.2023 | Switch Yard | 64.3 | 44.7 |
| 3. | 14.11.2023 | Workers Colony | 41.6 | 37.8 |
| 4. | 14.11.2023 | Railway Siding | 69.7 | 49.7 |
| 5. | 14.11.2023 | Weigh Bridge | 62.5 | 42.4 |
| 6. | 14.11.2023 | Guest House | 40.8 | 37.3 |
| 7. | 14.11.2023 | Main Gate | 63.9 | 46.8 |
| 8. | 14.11.2023 | Staff Colony | 51.5 | 38.4 |
| 9. | 14.11.2023 | Admin. Building | 50.6 | 36.9 |
| 10. | 14.11.2023 | Safety excellence Centre | 55.4 | 40.7 |
| 11. | 14.11.2023 | Traffic point near coal washery | 45.9 | 36.8 |
| 12. | 14.11.2023 | Dispensary | 42.4 | 37.1 |
| 13. | 14.11.2023 | Canteen | 53.8 | 40.9 |

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

Report No: BBS/505

Date: 12.12.2023


| | | | |
|-----|------------|---------------------------|------|
| 17. | 14.11.2023 | DRI Cooler Discharge Area | 62.1 |
| 18. | 14.11.2023 | DG Setpower Plant | 80.9 |
| 19. | 14.11.2023 | CFBC Boiler | 75.9 |
| 20. | 14.11.2023 | AFBC Boiler | 73.7 |
| 21. | 14.11.2023 | WHRB 1 Boiler | 63.8 |
| 22. | 14.11.2023 | WHRB 2 Boiler | 72.5 |
| 23. | 14.11.2023 | TG Set | 82.9 |
| 24. | 14.11.2023 | Air Compressor | 63.6 |
| 25. | 14.11.2023 | Project Rolling Mill Area | 70.9 |

| <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/505
Date : 12.12.2023
Sample No. : MSKGL/ED/2023-24/11/00640
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. | 14.11.2023 | SMS LRF | 66.4 |
| 2. | 14.11.2023 | SMS EAF | 67.8 |
| 3. | 14.11.2023 | SMS CCM | 72.8 |
| 4. | 14.11.2023 | IOC Terax Crusher Area | 64.7 |
| 5. | 14.11.2023 | IOC Screen Building | 60.2 |
| 6. | 14.11.2023 | CHP 400 TPH Crusher | 73.8 |
| 7. | 14.11.2023 | CHP 220 TPH Crusher | 60.5 |
| 8. | 14.11.2023 | FAP 1x18 MVA Furnace GF | 72.4 |
| 9. | 14.11.2023 | FAP 1x18 MVA Compressor Room | 70.5 |
| 10. | 14.11.2023 | FAP 2x9 MVA Furnace GF | 65.2 |
| 11. | 14.11.2023 | FAP 2x9 MVA Compressor Room | 72.9 |
| 12. | 14.11.2023 | Briquetting Mixture Machine | 62.8 |
| 13. | 14.11.2023 | Briquetting Drier | 74.2 |
| 14. | 14.11.2023 | DRI Kiln 1 | 60.9 |
| 15. | 14.11.2023 | DRI Kiln 2 | 66.4 |
| 16. | 14.11.2023 | DRI Bagging Area | 69.8 |

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 : 24.01.2024

Sample No. : MSKGL/ED/2023-24/12/00600

Sample Description : Ambient Noise

ANALYSIS RESULT

| Sl. No | Sampling Date | Sampling Location | Results in dB(A) | |
|--------|---------------|---------------------------------|------------------|------------|
| | | | Day Time | Night Time |
| 1. | 06.12.2023 | Central Store | 51.4 | 39.8 |
| 2. | 06.12.2023 | Switch Yard | 70.8 | 49.5 |
| 3. | 06.12.2023 | Workers Colony | 50.7 | 40.1 |
| 4. | 06.12.2023 | Railway Siding | 71.9 | 51.6 |
| 5. | 06.12.2023 | Weigh Bridge | 67.4 | 47.8 |
| 6. | 06.12.2023 | Guest House | 44.6 | 37.1 |
| 7. | 06.12.2023 | Main Gate | 64.8 | 42.5 |
| 8. | 06.12.2023 | Staff Colony | 50.3 | 39.4 |
| 9. | 06.12.2023 | Admin. Building | 52.2 | 42.9 |
| 10. | 06.12.2023 | Safety Excellence Centre | 60.4 | 40.7 |
| 11. | 06.12.2023 | Traffic point near Coal Washery | 54.6 | 38.9 |
| 12. | 06.12.2023 | Dispensary | 45.9 | 36.4 |
| 13. | 06.12.2023 | Canteen | 55.1 | 42.3 |

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

H.O.: Shraci Centre (5th Floor), 74B, Acharya Jagadish Chandra Bose Road, Kolkata - 700 016, West Bengal, India

T: 91 33 4014 3000 / 2265 0006 / 2265 0007, F: 91 33 2265 0008, E: info@mitrask.com, W: www.mitrask.com

Report No: BBS/204

Date: 24.01.2024

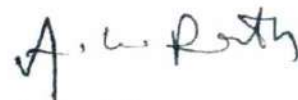
| | | | |
|-----|------------|---------------------------|------|
| 17. | 05.12.2023 | DRI Cooler Discharge Area | 67.4 |
| 18. | 05.12.2023 | DG Set Power Plant | 83.2 |
| 19. | 05.12.2023 | CFBC Boiler | 81.5 |
| 20. | 05.12.2023 | AFBC Boiler | 74.9 |
| 21. | 05.12.2023 | WHRB I Boiler | 71.8 |
| 22. | 05.12.2023 | WHRB II Boiler | 72.7 |
| 23. | 05.12.2023 | TG Set | 82.4 |
| 24. | 05.12.2023 | Air Compressor | 68.9 |
| 25. | 05.12.2023 | Rolling Mill Area | 76.1 |

| <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/204
Date : 24.01.2024
Sample No. : MSKGL/ED/2023-24/12/00900
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. | 05.12.2023 | SMS LRF | 67.5 |
| 2. | 05.12.2023 | SMS EAF | 68.1 |
| 3. | 05.12.2023 | SMS CCM | 70.2 |
| 4. | 05.12.2023 | IOC Terax Crusher Area | 72.6 |
| 5. | 05.12.2023 | IOC Screen Building | 68.9 |
| 6. | 05.12.2023 | CHP 400 TPH Crusher | 70.5 |
| 7. | 05.12.2023 | CHP 220 TPH Crusher | 72.1 |
| 8. | 05.12.2023 | FAP 1x18 MVA Furnace GF | 75.8 |
| 9. | 05.12.2023 | FAP 1x18 MVA Compressor Room | 71.4 |
| 10. | 05.12.2023 | FAP 2x9 MVA Furnace GF | 73.6 |
| 11. | 05.12.2023 | FAP 2x9 MVA Compressor Room | 81.2 |
| 12. | 05.12.2023 | Briquetting Mixture Machine | 79.5 |
| 13. | 05.12.2023 | Briquetting Drier | 82.8 |
| 14. | 05.12.2023 | DRI Kiln 1 | 66.4 |
| 15. | 05.12.2023 | DRI Kiln 2 | 63.1 |
| 16. | 05.12.2023 | DRI Bagging Area | 76.9 |

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/510
Date : 09.02.2024
Sample No. : MSKGL/ED/2023-24/01/00720
Sample Description : Ambient Noise

ANALYSIS RESULT

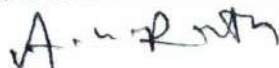
| Sl. No | Sampling Date | Sampling Location | Results in dB(A) | |
|--------|---------------|---------------------------------|------------------|------------|
| | | | Day Time | Night Time |
| 1. | 24.01.2024 | Central Store | 52.8 | 41.9 |
| 2. | 24.01.2024 | Switch Yard | 68.4 | 49.5 |
| 3. | 24.01.2024 | Workers Colony | 47.2 | 37.6 |
| 4. | 24.01.2024 | Railway Siding | 70.8 | 52.3 |
| 5. | 24.01.2024 | Weigh Bridge | 66.2 | 45.1 |
| 6. | 24.01.2024 | Guest House | 46.8 | 37.5 |
| 7. | 24.01.2024 | Main Gate | 62.1 | 40.8 |
| 8. | 24.01.2024 | Staff Colony | 50.9 | 38.6 |
| 9. | 24.01.2024 | Admin. Building | 72.6 | 42.3 |
| 10. | 24.01.2024 | Safety Excellence Centre | 61.9 | 43.5 |
| 11. | 24.01.2024 | Traffic point near Coal Washery | 52.1 | 39.7 |
| 12. | 24.01.2024 | Dispensary | 45.8 | 37.9 |
| 13. | 24.01.2024 | Canteen | 67.9 | 40.7 |

| 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

Report No: BBS/508

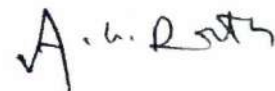
Date: 09.02.2024

| | | | |
|-----|------------|---------------------------|------|
| 17. | 23.01.2024 | DRI Cooler Discharge Area | 67.2 |
| 18. | 23.01.2024 | DG Set Power Plant | 82.1 |
| 19. | 23.01.2024 | CFBC Boiler | 74.9 |
| 20. | 23.01.2024 | AFBC Boiler | 70.6 |
| 21. | 23.01.2024 | WHRB I Boiler | 72.2 |
| 22. | 23.01.2024 | WHRB II Boiler | 73.1 |
| 23. | 23.01.2024 | TG Set | 84.5 |
| 24. | 23.01.2024 | Air Compressor | 71.0 |
| 25. | 23.01.2024 | Rolling Mill Area | 74.9 |

| <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, 1 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/509
Date : 09.02.2024
Sample No. : MSKGL/ED/2023-24/01/00840
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. | 23.01.2024 | SMS LRF | 67.4 |
| 2. | 23.01.2024 | SMS EAF | 71.5 |
| 3. | 23.01.2024 | SMS CCM | 68.8 |
| 4. | 23.01.2024 | IOC Terax Crusher Area | 69.4 |
| 5. | 23.01.2024 | IOC Screen Building | 70.5 |
| 6. | 23.01.2024 | CHP 400 TPH Crusher | 71.9 |
| 7. | 23.01.2024 | CHP 220 TPH Crusher | 73.6 |
| 8. | 23.01.2024 | FAP 1x18 MVA Furnace GF | 72.9 |
| 9. | 23.01.2024 | FAP 1x18 MVA Compressor Room | 67.5 |
| 10. | 23.01.2024 | FAP 2x9 MVA Furnace GF | 70.1 |
| 11. | 23.01.2024 | FAP 2x9 MVA Compressor Room | 82.9 |
| 12. | 23.01.2024 | Briquetting Mixture Machine | 67.1 |
| 13. | 23.01.2024 | Briquetting Drier | 80.6 |
| 14. | 23.01.2024 | DRI Kiln I | 62.4 |
| 15. | 23.01.2024 | DRI Kiln II | 64.9 |
| 16. | 23.01.2024 | DRI Bagging Area | 75.2 |

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/505
Date : 10.03.2024
Sample No. : MSKGL/ED/2023-24/02/00810
Sample Description : Ambient Noise

ANALYSIS RESULT

| Sl. No | Sampling Date | Sampling Location | Results in dB(A) | |
|--------|---------------|---------------------------------|------------------|------------|
| | | | Day Time | Night Time |
| 1. | 07.02.2024 | Central Store | 53.2 | 40.4 |
| 2. | 07.02.2024 | Switch Yard | 65.8 | 47.1 |
| 3. | 07.02.2024 | Workers Colony | 46.4 | 36.2 |
| 4. | 07.02.2024 | Railway Siding | 71.9 | 50.6 |
| 5. | 07.02.2024 | Weigh Bridge | 67.4 | 46.4 |
| 6. | 07.02.2024 | Guest House | 45.2 | 38.9 |
| 7. | 07.02.2024 | Main Gate | 64.9 | 41.4 |
| 8. | 07.02.2024 | Staff Colony | 51.6 | 37.8 |
| 9. | 07.02.2024 | Admin. Building | 54.1 | 43.7 |
| 10. | 07.02.2024 | Safety Excellence Centre | 62.4 | 44.1 |
| 11. | 07.02.2024 | Traffic point near Coal Washery | 50.9 | 39.5 |
| 12. | 07.02.2024 | Dispensary | 42.1 | 36.9 |
| 13. | 07.02.2024 | Canteen | 52.8 | 40.4 |

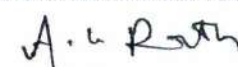
Noise Limit as per CPCB

| 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

Date: 10.03.2024

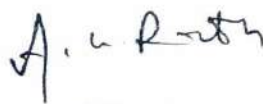
Report No: BBS/504

| | | | |
|-----|------------|--|------|
| 17. | 07.02.2024 | DRI Cooler Discharge Area | 69.1 |
| 18. | 07.02.2024 | DG Set Power Plant | 81.0 |
| 19. | 07.02.2024 | CFBC Boiler | 75.3 |
| 20. | 07.02.2024 | AFBC Boiler | 80.2 |
| 21. | 07.02.2024 | WHRB I Boiler | 70.6 |
| 22. | 07.02.2024 | WHRB II Boiler | 74.2 |
| 23. | 07.02.2024 | TG Set | 83.1 |
| 24. | 07.02.2024 | Air Compressor | 72.9 |
| 25. | 07.02.2024 | Rolling Mill Area | 70.2 |
| 26. | 07.02.2024 | Rolling Mill Near RHF Blower | 81.3 |
| 27. | 07.02.2024 | Rolling Mill Near BD Mill | 78.6 |
| 28. | 07.02.2024 | Rolling Mill Near Bright Bar Peeling Machine | 77.9 |
| 29. | 07.02.2024 | Rolling Mill Near Straightening Machine | 75.6 |

| <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, 1 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/504
Date : 10.03.2024
Sample No. : MSKGL/ED/2023-24/02/00840
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. | 07.02.2024 | SMS LRF | 69.7 |
| 2. | 07.02.2024 | SMS EAF | 67.3 |
| 3. | 07.02.2024 | SMS CCM | 70.4 |
| 4. | 07.02.2024 | IOC Terax Crusher Area | 65.2 |
| 5. | 07.02.2024 | IOC Screen Building | 71.6 |
| 6. | 07.02.2024 | CHP 400 TPH Crusher | 70.9 |
| 7. | 07.02.2024 | CHP 220 TPH Crusher | 69.6 |
| 8. | 07.02.2024 | FAP 1x18 MVA Furnace GF | 68.1 |
| 9. | 07.02.2024 | FAP 1x18 MVA Compressor Room | 72.5 |
| 10. | 07.02.2024 | FAP 2x9 MVA Furnace GF | 71.6 |
| 11. | 07.02.2024 | FAP 2x9 MVA Compressor Room | 80.5 |
| 12. | 07.02.2024 | Briquetting Mixture Machine | 64.3 |
| 13. | 07.02.2024 | Briquetting Drier | 82.9 |
| 14. | 07.02.2024 | DRI Kiln I | 60.4 |
| 15. | 07.02.2024 | DRI Kiln II | 63.2 |
| 16. | 07.02.2024 | DRI Bagging Area | 76.8 |

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/604
Date : 16.04.2024
Sample No. : MSKGL/ED/2023-24/03/00810
Sample Description : Ambient Noise

ANALYSIS RESULT

| Sl. No | Sampling Date | Sampling Location | Results in dB(A) | |
|--------|---------------|---------------------------------|------------------|------------|
| | | | Day Time | Night Time |
| 1. | 27.03.2024 | Central Store | 62.6 | 40.8 |
| 2. | 27.03.2024 | Switch Yard | 62.5 | 43.6 |
| 3. | 27.03.2024 | Workers Colony | 51.0 | 37.1 |
| 4. | 27.03.2024 | Railway Siding | 70.3 | 44.9 |
| 5. | 27.03.2024 | Weigh Bridge | 66.9 | 46.2 |
| 6. | 27.03.2024 | Guest House | 43.8 | 37.5 |
| 7. | 27.03.2024 | Main Gate | 70.4 | 39.6 |
| 8. | 27.03.2024 | Staff Colony | 58.2 | 36.8 |
| 9. | 27.03.2024 | Admin. Building | 62.1 | 41.2 |
| 10. | 27.03.2024 | Safety Excellence Centre | 60.9 | 43.1 |
| 11. | 27.03.2024 | Traffic point near Coal Washery | 59.8 | 36.8 |
| 12. | 27.03.2024 | Dispensary | 44.0 | 37.0 |
| 13. | 27.03.2024 | Canteen | 61.6 | 39.3 |

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

Report No: BBS/603

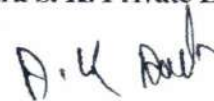
Date: 16.04.2024

| | | | |
|-----|------------|--|------|
| 17. | 28.03.2024 | DRI Cooler Discharge Area | 65.2 |
| 18. | 28.03.2024 | DG Set Power Plant | 78.6 |
| 19. | 28.03.2024 | CFBC Boiler | 71.5 |
| 20. | 28.03.2024 | AFBC Boiler | 81.8 |
| 21. | 28.03.2024 | WHRB I Boiler | 72.4 |
| 22. | 28.03.2024 | WHRB II Boiler | 70.5 |
| 23. | 28.03.2024 | TG Set | 82.8 |
| 24. | 28.03.2024 | Air Compressor | 70.6 |
| 25. | 28.03.2024 | Rolling Mill Area | 68.2 |
| 26. | 07.02.2024 | Rolling Mill Near RHF Blower | 77.4 |
| 27. | 07.02.2024 | Rolling Mill Near BD Mill | 81.6 |
| 28. | 07.02.2024 | Rolling Mill Near Bright Bar Peeling Machine | 79.2 |
| 29. | 07.02.2024 | Rolling Mill Near Straightening Machine | 77.9 |

| 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/603
Date : 16.04.2024
Sample No. : MSKGL/ED/2023-24/03/00840
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. | 28.03.2024 | SMS LRF | 65.8 |
| 2. | 28.03.2024 | SMS EAF | 70.1 |
| 3. | 28.03.2024 | SMS CCM | 67.2 |
| 4. | 28.03.2024 | IOC Terax Crusher Area | 62.8 |
| 5. | 28.03.2024 | IOC Screen Building | 72.4 |
| 6. | 28.03.2024 | CHP 400 TPH Crusher | 64.9 |
| 7. | 28.03.2024 | CHP 220 TPH Crusher | 67.2 |
| 8. | 28.03.2024 | FAP 1x18 MVA Furnace GF | 64.8 |
| 9. | 28.03.2024 | FAP 1x18 MVA Compressor Room | 70.1 |
| 10. | 28.03.2024 | FAP 2x9 MVA Furnace GF | 69.5 |
| 11. | 28.03.2024 | FAP 2x9 MVA Compressor Room | 78.1 |
| 12. | 28.03.2024 | Briquetting Mixture Machine | 61.9 |
| 13. | 28.03.2024 | Briquetting Drier | 80.4 |
| 14. | 28.03.2024 | DRI Kiln I | 62.6 |
| 15. | 28.03.2024 | DRI Kiln II | 63.2 |
| 16. | 28.03.2024 | DRI Bagging Area | 71.8 |

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/208
Date : 24.01.2024
Sample No. : MSKGL/ED/2023-24/12/00870
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. | SMS Area | 05.12.2023 | 1241 |
| 2. | CFBC Area | 05.12.2023 | 1570 |

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



H.O.: Shrachi Centre (5th Floor), 74B, Acharya Jagadish Chandra Bose Road, Kolkata - 700 016, West Bengal, India
T: 91 33 4014 3000 / 2265 0006 / 2265 0007, F: 91 33 2265 0008, E: info@mitrask.com, W: www.mitrask.com

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/510

Date : 12.12.2023

Sample No. : MSKGL/ED/2023-24/11/01052

Sample Description : Fugitive Air

Analysis Result of Fugitive Air

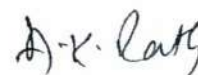
| Sl. No | Sampling Location | Date of Sampling | Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$ |
|--------|---------------------|------------------|--|
| 1. | Char Circuit | 14.11.2023 | 1817 |
| 2. | AFBC Boiler Area | 14.11.2023 | 1360 |
| 3. | DRI Separation Area | 14.11.2023 | 1923 |
| 4. | DRI Bagging Area | 14.11.2023 | 1706 |

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

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/508
Date : 27.10.2023
Sample No. : MSKGL/ED/2023-24/10/00700
Sample Description : Fugitive Air

Analysis Result of Fugitive Air

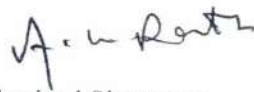
| Sl. No | Sampling Location | Date of Sampling | Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$ |
|--------|---------------------|------------------|--|
| 1. | Raw Material Feeder | 05.10.2023 | 1149 |
| 2. | Iron Ore Crusher | 05.10.2023 | 1322 |
| 3. | CFBC Boiler Area | 05.10.2023 | 1085 |
| 4. | Coal Storage | 05.10.2023 | 1217 |
| 5. | RMHS Transfer Area | 05.10.2023 | 1360 |
| 6. | DRI Day Bin | 05.10.2023 | 1123 |
| 7. | CDA Transfer Point | 05.10.2023 | 1506 |

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

**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 | 660 m ³ /hr |
| 4 | Domestic | 2 m ³ /hr |
| 5 | Agriculture | 5 m ³ /hr |
| 6 | Other Use (Green belt, Fire Service, Other) | 3700 m ³ /hr |
| | Total | |

M/s. Aarti Steels Limited
AT BHADRAKAL,
P.O. BHADRAKAL,
Via Aligarh, U.P. Ghatkoti

M/s. Aarti Steels Limited
AT BHADRAKAL,
P.O. BHADRAKAL,
Via Aligarh, U.P. Ghatkoti



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/500
Date : 09.02.2024
Sample No. : MSKGL/FD/2023-24/01/01045
Sample Description : Ground Water
Sampling Location : Borewell at Dwarabatipur
Date of Sampling : 24.01.2024

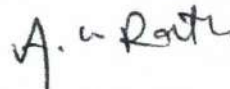
CHEMICAL ANALYSIS RESULT

| Sl. No. | Test Parameters | Requirement (Acceptable Limit) | Permissible limit in the absence of alternate Source | Test Method / Specification | Result |
|---------|---|--------------------------------|--|-----------------------------|--------|
| 1. | pH value (at 26 ^o C) | 6.5-8.5 | No Relaxation | IS 3025 (Part 11)-1984 | 7.72 |
| 2. | Turbidity in N.T.U | 1 | 5 | IS 3025 (Part 10)-1984 | 3.2 |
| 3. | Iron (as Fe) in mg/l | 0.3 | No Relaxation | IS 3025 (Part 53)-1988 | 0.28 |
| 4. | Total Dissolved Solids (as TDS) in mg/l | 500 | 2000 | IS 3025 (Part 16):1984 | 96.0 |

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/501
Date : 09.02.2024
Sample No. : MSKGL/FD/2023-24/01/01046
Sample Description : Ground Water
Sampling Location : Borewell at Chandrabali
Shyampur
Date of Sampling : 24.01.2024

CHEMICAL ANALYSIS RESULT

| Sl. No. | Test Parameters | Requirement (Acceptable Limit) | Permissible limit in the absence of alternate Source | Test Method / Specification | Result |
|---------|---|--------------------------------|--|-----------------------------|--------|
| 1. | pH value (at 26 ^o C) | 6.5-8.5 | No Relaxation | IS 3025 (Part 11)-1984 | 6.58 |
| 2. | Turbidity in N.T.U | 1 | 5 | IS 3025 (Part 10)-1984 | 2.2 |
| 3. | Iron (as Fe) in mg/l | 0.3 | No Relaxation | IS 3025 (Part 53)-1988 | 0.18 |
| 4. | Total Dissolved Solids (as TDS) in mg/l | 500 | 2000 | IS 3025 (Part 16):1984 | 22.0 |

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/502
Date : 09.02.2024
Sample No. : MSKGL/FD/2023-24/01/01047
Sample Description : Ground Water
Sampling Location : Borewell at Ghantikhal
Date of Sampling : 24.01.2024

CHEMICAL ANALYSIS RESULT

| Sl. No. | Test Parameters | Requirement (Acceptable Limit) | Permissible limit in the absence of alternate Source | Test Method / Specification | Result |
|---------|---|--------------------------------|--|----------------------------------|--------|
| 1. | pH value (at 26 ^o C) | 6.5-8.5 | No Relaxation | IS 3025 (Part 11)-1984 | 6.76 |
| 2. | Turbidity in N.T.U | 1 | 5 | IS 3025 (Part 10)-1984 | 2.8 |
| 3. | Iron (as Fe) in mg/l | 0.3 | No Relaxation | IS 3025 (Part 53)-1988 | 0.16 |
| 4. | Total Dissolved Solids (as TDS) in mg/l | 500 | 2000 | IS 3025 (Part 16):1984 Reff-2012 | 88.0 |

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/503
Date : 09.02.2024
Sample No. : MSKGL/FD/2023-24/01/01048
Sample Description : Ground Water
Sampling Location : Borewell at Nidhipur
Date of Sampling : 24.01.2024

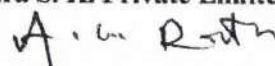
CHEMICAL ANALYSIS RESULT

| Sl. No. | Test Parameters | Requirement (Acceptable Limit) | Permissible limit in the absence of alternate Source | Test Method / Specification | Result |
|---------|---|--------------------------------|--|----------------------------------|--------|
| 1. | pH value (at 26 ^o C) | 6.5-8.5 | No Relaxation | IS 3025 (Part 11)-1984 | 6.84 |
| 2. | Turbidity in N.T.U | 1 | 5 | IS 3025 (Part 10)-1984 | 1.9 |
| 3. | Iron (as Fe) in mg/l | 0.3 | No Relaxation | IS 3025 (Part 53)-1988 | 0.21 |
| 4. | Total Dissolved Solids (as TDS) in mg/l | 500 | 2000 | IS 3025 (Part 16):1984 Reff-2012 | 35.0 |

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/504

Date : 09.02.2024

Sample No. : MSKGL/FD/2023-24/01/01049


Sample Description : Ground Water

Sampling Location : Borewell at
Subarnamanjaripur

Date of Sampling : 24.01.2024

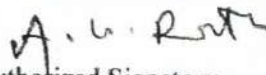
CHEMICAL ANALYSIS RESULT

| Sl. No. | Test Parameters | Requirement (Acceptable Limit) | Permissible limit in the absence of alternate Source | Test Method / Specification | Result |
|---------|---|--------------------------------|--|-----------------------------|--------|
| 1. | pH value (at 26 ^o C) | 6.5-8.5 | No Relaxation | IS 3025 (Part 11)-1984 | 6.66 |
| 2. | Turbidity in N.T.U | 1 | 5 | IS 3025 (Part 10)-1984 | 3.8 |
| 3. | Iron (as Fe) in mg/l | 0.3 | No Relaxation | IS 3025 (Part 53)-1988 | 0.28 |
| 4. | Total Dissolved Solids (as TDS) in mg/l | 500 | 2000 | IS 3025 (Part 16)-1984 | 60.0 |

Report 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 2023- March 2024) | | | | | | | |
| 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 | 26089 | 1069 | 4 | Disposed off for road making/land filling/disposal after iron recovery. |
| 2 | 2 X 500 TPD DRI | Char | 132000 | 75941 | 65000 | 86 | Used as Fuel in power plant. |
| | | Iron Fines | 132000 | 75093 | 44953 | 60 | Being sold |
| | | Wet scrapper sludge | 10560 | 10181 | 0 | 0 | Being Sold |
| | | DE Dust | 21450 | 20355 | 20355 | 100 | 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 | 174633 | 174633 | 100 | Used by supplying fly ash to cement & Brick manufacturing units. |
| | | Bottom ash from AFBC, CFBC, | 90000 | 68506 | 68506 | 100 | Road making, land fillings and supply for paver blocks making |
| 4 | 2 X 9 MVA | Slag | 25000 | 25000 | 22600 | 90 | Road making, land filling and balance is disposed in the allocated disposal site |
| 5 | 1 x 18 MVA | Slag | 25000 | 25000 | 22800 | 91 | Road making, land filling and balance is disposed in the allocated disposal site |
| 6 | 0.2 MTPA Rolling Mill | Mill Scale | 2400 | 1850 | 1822 | 98 | Being sold |
| Total | | | 701510 | 502648 | 421738 | 83.90 | |



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

AARTI STEELS LIMITED

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

HAZARDOUS WASTE MANAGEMENT

ANNEXURE - VI

HAZARDOUS MANAGEMENT AT AARTI STEELS LIMITED, GHANTIKHAL

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

Works

: Ghantikhal, P.O.: Mahakalabasta, Via: Athagarh, Dist.: **Cuttack**–754 029 (Orissa),
India. Phone: +91-671-3061000, **Fax:** +91-671-3061148, 3061149, 3061150

Regd. Office/H.O.

: G.T.Road, Miller Ganj, **Ludhiana**–141 003 (Punjab), **India, Phone:** +91-161-3006100, **Fax:** +91-161-3006155, **E-mail:** info@aartisteelsltd.com

ANNEXURE - VII (FLYASH UTILIZATION REPORT)

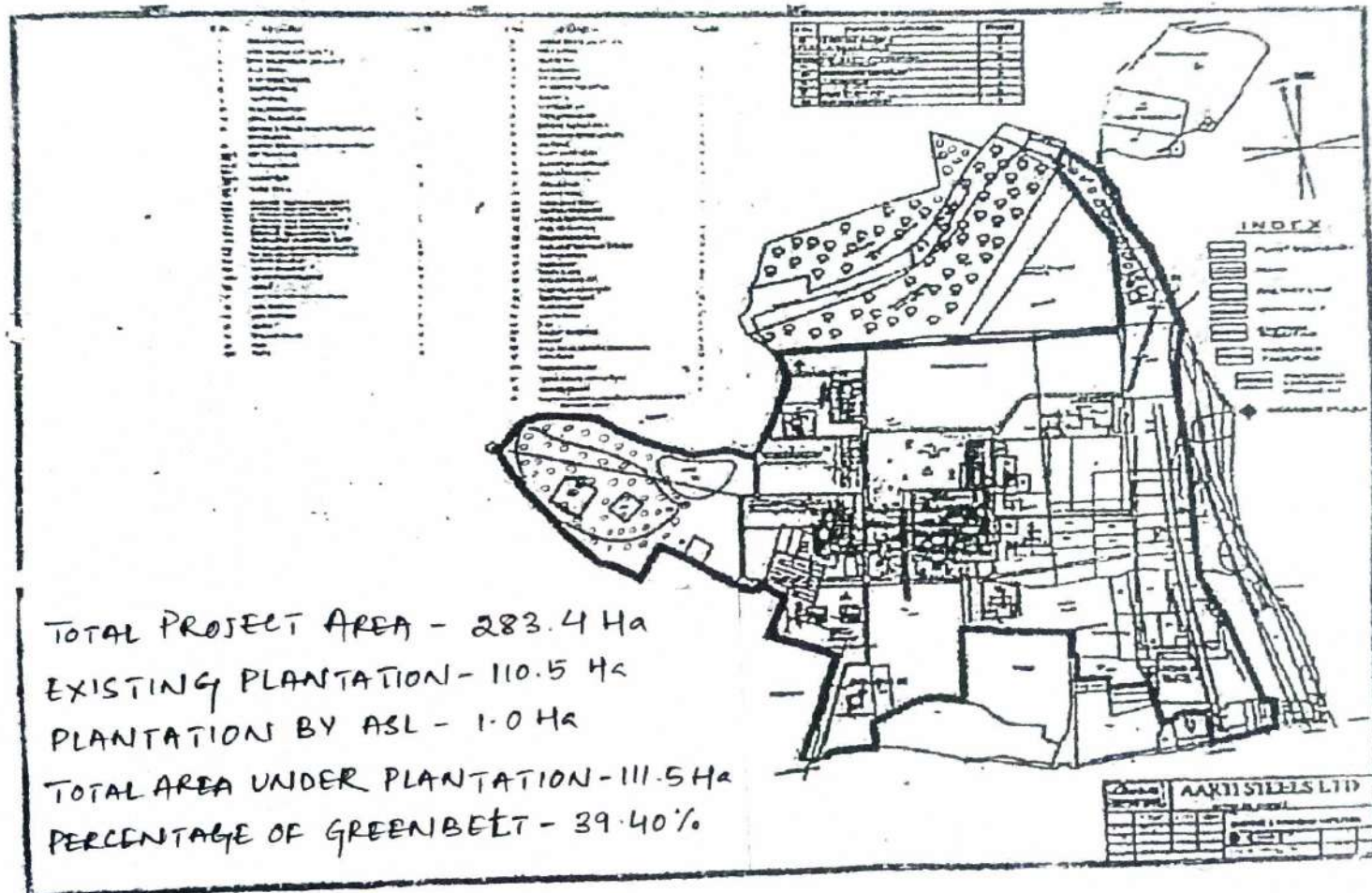
| SL.NO. | Name of the Industry | Location | No. of units | Year | Total capacity | Power Generation on (MWH) | Coal/Lignite consumption(MT) | Ash Generated in MT | | |
|--------|----------------------|---------------------|--------------|---------|----------------|---------------------------|------------------------------|-------------------------------|----------------------------------|---------------------|
| | | | | | | | | Quantity of fly ash generated | Quantity of Bottom ash generated | Total Ash Generated |
| 1 | Aarti Steels Ltd. | Ghantikhal, Cuttack | 4 units | 2023-24 | 90 MW | 481123 | 424393 | 174632 | 68505 | 243137 |

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) |
|-----------------------------|---------------------------|------------------------|------------------|---------------------|-------------------------|------------|-----------------|------------------------------------|-------------|--------------------------------------|-----------------------------|
| 243137 | 0 | 6817 | 6119 | | 230201 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | Total Ash Utilized | Qumulative quantity of ash utilized | Qumulative total of ash not utilized | % of utilization | Likely increase in ash generation |
|--|--|--------------------|-------------------------------------|--------------------------------------|------------------|-----------------------------------|
| | | 243137 | | | 100 | |

Annexure - VIII



PLAN FOR COMPLYING THE RECOMMENDATIONS OF CREP AT AARTI STEELS LIMITED,Ghantikhal,Cuttack.

The point wise action plan as applicable to us as on date for complying the recommendations of CREP are as indicated below:

4.Solid Waste/Hazardous Waste Management**Solid Waste Management**

We have taken the following measures to reduce solid waste generation, its proper utilization and disposal:

Rejects of coal washery are being used as fuel in CFBC boiler for generation of steam. Char generated is being utilized in power plant to the extent possible. Constructed bio-medical waste disposal pit for disposal of our First Aid Centre bio-medical waste. We have installed organic waste converter for converting canteen waste into manure and the same is being utilised as manure for green belt development. We are recycling rejected dedusting bags in to carry bags. We have utilized **100%** fly ash in the year 2023-24 by supplying to brick plant, cement plant and land filling. The slag generated from 1x18 MVA FAP after metal recovery is being utilized for construction/land filling purpose.

HAZARDOUS WASTE MANAGEMENT**HAZARDOUS WASTE MANAGEMENT AT M/S AARTI STEELS LIMITED,GHANTIKHAL**

| Sl No. | Waste Description | Waste Class/Stream | Schedule | Quantity | Disposal |
|--------|-------------------------------|--------------------|----------|----------|--|
| 01 | Used/Spent Oil | 5.1 | 1 | 30 T/A | Being sold to OSPCB authorised re-refiner/recycler. |
| 02 | Waste/Residues containing oil | 5.2 | 1 | 1.7 T/A | Being disposed off in impervious pit/containers with cover. |
| 03 | Spent resin from DM | 35.2 | 1 | 3.5 T/A | Being Stored in impervious pits/containers over impervious floor under well ventilated covered shed followed by utilization in DRI Kiln for energy recovery. |
| 04. | Flue Gas Cleaning ue. | 35.1 | 1 | 1000 T/A | Being utilized for briquette manufacturing for use as raw material in the furnace inside our factory premises. |

5. Water Conservation/Water Pollution -Full utilization of Blow down and waste water for slurry making thereby optimizing the water requirement. We are not discharging any process effluent. The blow down water from cooling tower, Boiler, coolers & RO plant after treatment in neutralization pit is collected in wastewater sump and the same is reused for slurry making. Overflow decanted water from ash slurry is collected in wastewater sump and recycled. Thus the company achieves zero discharge by using treated effluent in the process. For 1x18 MVA FAP project recycling arrangements for the cooling waste water of SAF has been installed.

-Installed STP at colonies,office complex,canteen & rolling mill for treatment of waste water and the water after treatment is being utilised for dust suppression/gardening.

- Implementation of rain Water Harvesting

In consultation with IIT,Kharagpur,we have already constructed surface run-off rain water harvesting pit of size (83mx73mx5m) for 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. Now, even in case of heavy rain we found that no black water is going out of plant boundary.

6. Online monitoring facility :

-We have already installed 4 nos online continuous ambient air quality monitoring stations (MoEF approved methodology & USEPA approved equipment) for measuring the parameters such as PM10, PM2.5, SO₂, NO_x, CO and online continuous stack emission monitoring system for all ESP & GCP stacks including 50 MW CFBC power plant for measuring the parameters such as PM, SO₂, NO_x. Further, we have installed RT-DAS for AAQ and Stacks & uploaded real time data to the OSPCB & CPCB server through M/s Phoenix Robotics Private Limited, Rourkela & M/s Env EA India Private Limited, Thane respectively.

-Continuous online continuous stack emission monitoring system for 1x18 MVA FAP GCP has already been installed and data is being transmitted to OSPCB and CPCB server.

7. . Efficient Operation of Pollution Control Equipments

To operate the existing pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect. Compliance report in this regard to be submitted to CPCB/SPCB every three months-**Being Complied.**

9. Adoption of Clean technologies

- Aarti Steels Limited, Ghantikhal has obtained ISO 9001 & ISO 14001 & OHSAS18001 certification since October, 2009.

-In consultation with IIT, Kharagpur, we have already constructed surface run-off water harvesting pit of size (83mx73mx5m) for 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. Now, even in case of heavy rain we found that no black water is going out of plant boundary.

-Reduction of green house gases by:

*Reduction in power Consumption wherever possible (ASL has installed capacitor bank towards conservation of energy, Use of CFL in place of ICL, wherever possible, Use of BIS marked & BEE 5 star rated electric appliance, Started utilization of translucent fiber sheets on roof tops of stores and other areas for use of day (sun) light energy, use of cooking gas in place of electric heater etc.).

*Installed system of Heat recovery from Bed ash of CFBC boiler for use in water heating purpose.

*We have made provision to operate boiler feed water pumps of PP-II with the reduce delivery pressure of keeping difference of boiler drum pressure of 10-12 Kg/cm² only and it is working.

*Installed frequency drive in our 50 MW power plant conservation for all the motors above 200 KW.

*Drum level control of CFBC boiler is shifted from control valve to variable frequency drive.

*Provision of CFBC boiler pressure control with ID fan VFD.

*Secondary Air fan speed of CFBC is linked with O₂ level thereby better control of O₂ level, better coal consumption and control of excess air and hence energy saving.

*CFBC MCW speed is linked with vacuum.

*Separate Energy meters have already been installed for ESPs & Ash Handling System & record is being maintained for proper monitoring and control of energy consumption.

* Separate water flow meters have already been installed in various units of our plant & record is being maintained for proper monitoring and control of water consumption.

*Energy optimization technology like Energy audit conducted by Certified Energy Auditor's and some of the recommendation of are under implementation.

*Ernst and Young has studied our plant to verify the present status of energy efficiency.They will also suggest a target or improvement in the energy conservation which will be achieved by adopting various energy conservation measures.

*Replacement of High Pressure Mercury vapour lamps and high pressure sodium vapour lamps with Energy Efficient Metal Halide fittings and lamps.

*Use of 2x36 W CFL light in place of High Pressure Sodium vapour lamp.

*Introduction of timer switches for controlling day time loading completed in 50 MW power plant.

-Targets for resource conservation has been set.

-Env.Monitoring

As per OSPCB direction,we have already installed 4 nos online continuous ambient air quality monitoring stations (MOEF approved methodology & USEPA approved equipment) for measuring the parameters such as PM10, PM2.5,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 & GCP(bag filter) stacks for measuring the parameters such as PM. Further,we have installed RT-DAS for AAQ and Stacks & uploaded real time data to the OSPCB & CPCB server through M/s Phoenix Robotics Private Limited,Rourkela & M/s ENVEA India Private Limited,Thane respectively.For remaining parameters & for on line system calibration purpose we are carrying out Env.monitoring & Analysis through **M/s Mitra S.K. Private Limited**(MOEF authorized laboratory & OSPCB empanelled consultant).

-House Keeping

Proper House Keeping with in the plant premises is being carried out. Continuous efforts are being made to improve it further. Dedicated team has been constituted in all the units to maintain proper house keeping. Inspection for improvement in House Keeping is being ensured by our Safety & Environment department.

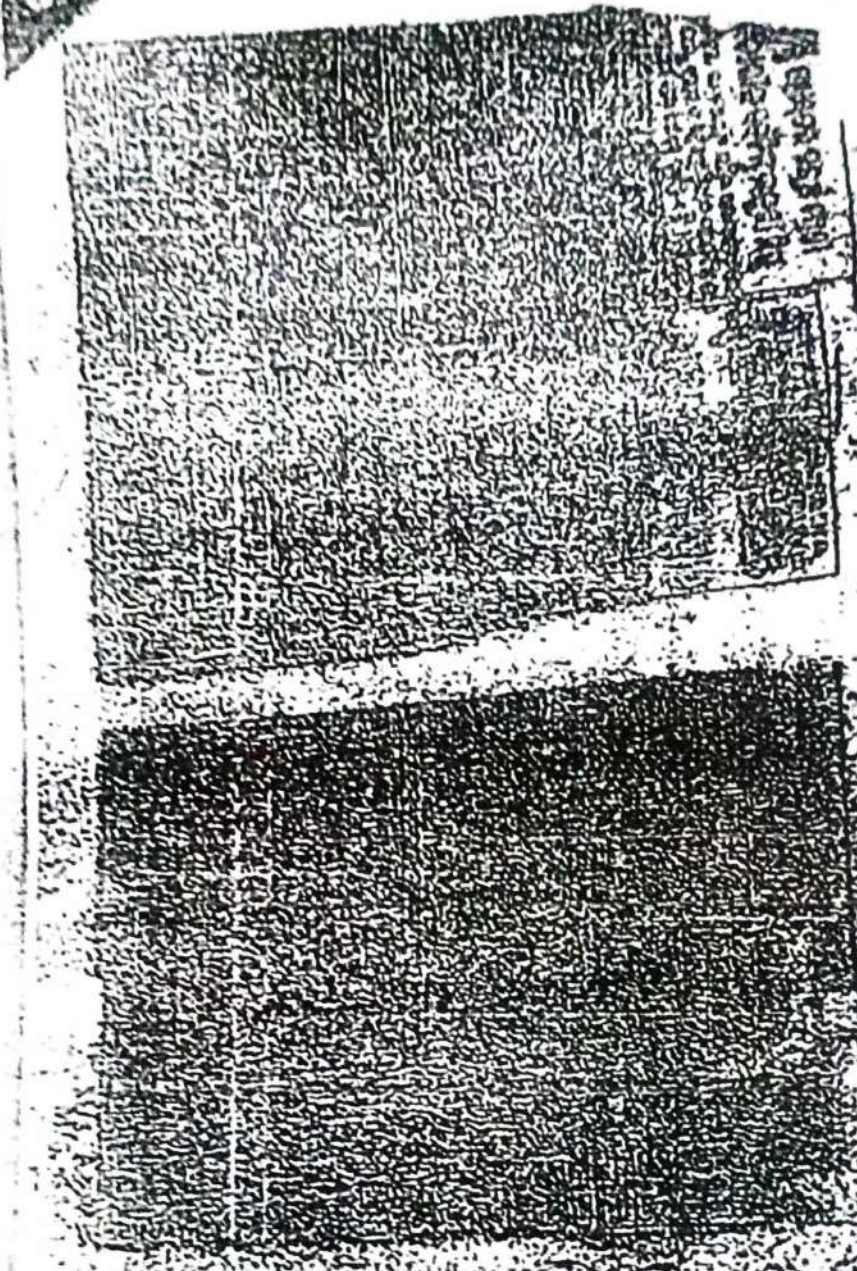
CONSOLIDATED PERIPHERAL EXPENDITURES
IN DIFFERENT HEADS up to 31.03.24

| SL NO | PARTICULARS | AMOUNT |
|-------|--|-------------------|
| 01 | HEALTH CARE | Rs 2,29,44,200.00 |
| 02 | EDUCATION | Rs 43,61,235.00 |
| 03 | COMMUNITY DEVELOPMENT, SOCIAL WELFARE & OTHERS | Rs 3,85,03,432.00 |
| 04 | GAMES & SPORTS | Rs 8,62,400.00 |
| 05 | ENVIRONMENTAL PROTECTION | Rs 4,98,500.00 |
| 06 | SOCIAL INFRASTRUCTURE & OTHER MISCELLANEOUS WORKS | Rs 42,53,855.00 |
| | TOTAL | Rs 7,14,23,622.00 |

Expenditure Incurred on Environmental Protection Measures till by Aarti Steels Limited, for the period 01.10.2023 to 31.03.2024

- Total Expenditure incurred so far is Rs 1094 (As per CA certificate)
- Total cost incurred on environmental protection measures as on 31.03.2024 is **169.964 crore.**

| Sl. No. | Category | Total Cost incurred till 30.09.2023 (in Crore) | Total Cost incurred till 31.03.2024 (in Crore) |
|---------|------------------------------|--|--|
| 1. | Air Pollution Control | 87.77 | 88.76 |
| 2. | Water Pollution Control | 8.24 | 8.324 |
| 3. | Conservation of Resources | 1.06926 | 1.06926 |
| 4. | Noise Pollution Control | 0.159 | 0.159 |
| 5. | Environment Monitoring | 14.91 | 14.986 |
| 6. | Occupational Health | 2.6795 | 2.7522 |
| 7. | Green Belt Development | 2.506 | 2.666 |
| 8. | House Keeping | 10.837 | 11.497 |
| 9. | Peripheral Development | 6.990 | 7.1423 |
| 10. | Solid Waste Management | 28.595 | 28.6164 |
| 11. | Hazardous Waste Management | 0.553 | 0.553 |
| 12. | Statutory Fees | 2.666 | 2.729 |
| 13. | Bio-medical Waste Management | 0.023 | 0.023 |
| 14. | Others | 0.685 | 0.687 |
| | Total | 167.683 | 169.964 |



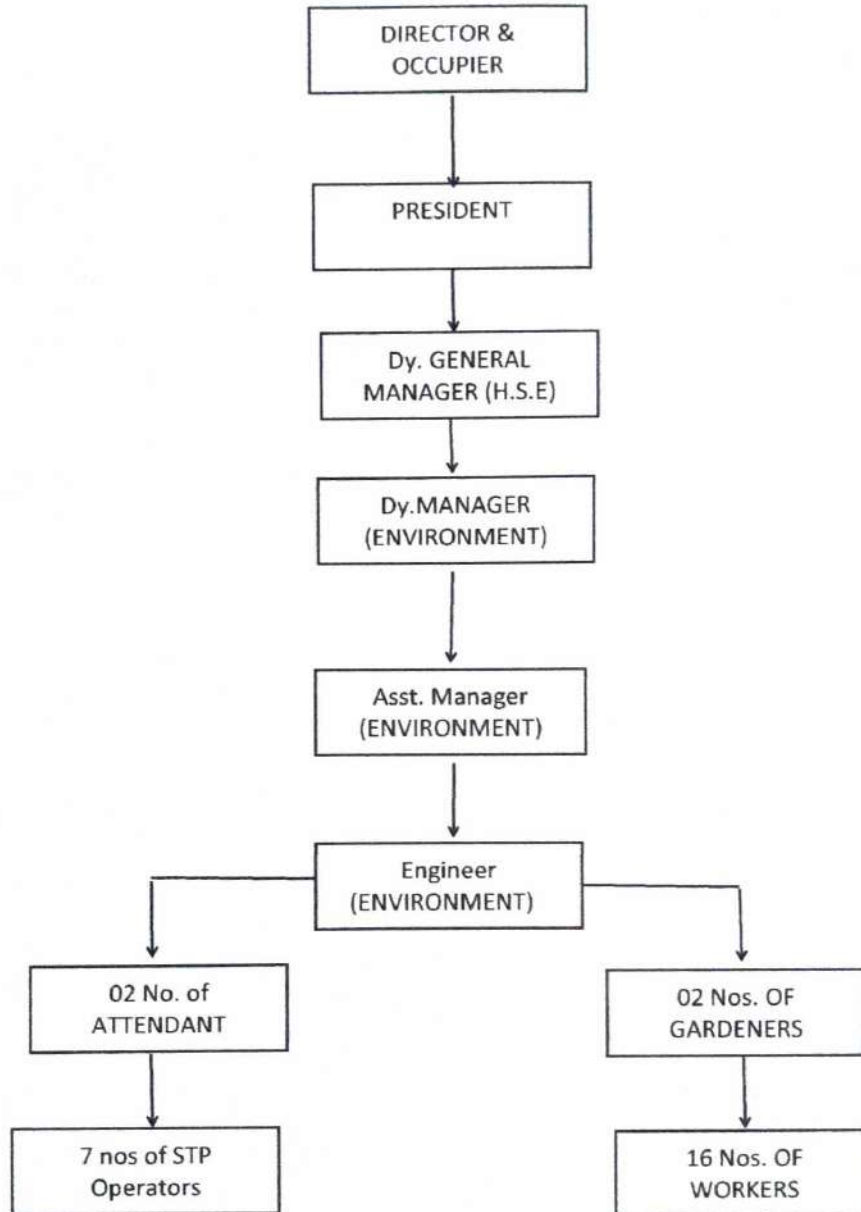
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50020715 10. 08. 2005



AARTI STEELS LIMITED

ENVIRONMENT CELL



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. Er.Kumuda Nilaratana, M.Tech (Env.Engg.)- Engineer (Environment)
5. Mr.Santosh Kumar Khuntia,Jr Gardner
6. Mr. Harihar Samal, Env. Attendent
7. Mr.Jambeswar Naik, Attendant

Head of the Environment Department directly reports to Mr. Sudipto Sadhan Paul, President.

The organization structure of Environment Department is given below.