



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

# AARTI STEELS LIMITED

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Ref:ASL/EC-2005/Env./

Date: 25<sup>th</sup> Dec 2024

To

**The Additional Deputy Director General of Forests(C),**  
Government of India, Ministry of Environment & Forests,  
Eastern Regional Office, A/3, Chandrasekharpur,  
Bhubaneswar – 751023, Fax: 0674-2302432.  
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**Sub: Submission of Half-yearly Compliance report on the stipulated Environmental Clearance accorded by the Ministry to the project “0.5 MTPA Integrated Steel Plant and 50 MW CPP by Aarti Steels Limited at village Ghantikhal in dist. Cuttack in Odisha- reg.”**

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


Respected Sir,

We are herewith submitting the Six-monthly compliance report on the status of the implementation of the conditions stipulated in Environmental Clearance awarded to us Vide MoEF Fill No: **J.11011/158/2004-IAII (I)** dated **16.02.2005** in respect of Integrated Steel Plant, Cuttack Odisha of Aarti Steels Limited for the Period from **April-2024 to September-2024**.

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

Thanks & Regards,

For Aarti Steels Ltd,

  
**Ganeswar Panigrahi**  
(Factory Manager)  
**Ganeswar Panigrahi**  
Factory Manager  
Aarti Steels Ltd.

Encl: As above

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

**The Regional Director,**  
The Central Pollution Control Board,

**Works** : Ghantikhal, P.O. : Mahakalabasta, Via : Athagarh, Dist. : **Cuttack - 754029 (Odisha) - India**  
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**The Regional Officer,**  
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-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 April'24 to September'24**



# **Half-Yearly Compliance Report**

on

## **Environmental Clearance Conditions**

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

**Period: April'24 to September'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 April'24 to September'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 April'24 to September'24**

| Sl. No. | Specific Conditions   | Compliance Status (April'24 to September'24)  |
|---------|---|---|
| A (i)   | <p>The gaseous emissions from various process units should conform to the load/mass-based standards notified by this Ministry on 19<sup>th</sup> 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"><b><u>Complied</u></b></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 &amp; Ferro Alloys unit are being monitored regularly (stack monitoring reports are enclosed for reference - <b>Annexure 4</b>). 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/Nm<sup>3</sup>. 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/Nm<sup>3</sup> except thermal power plants (AFBC &amp; CFBC) for which prescribed standard is 50 mg/Nm<sup>3</sup> 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 &amp; Bag Filters are designed to ensure emission level below the prescribed standards. (<b>fig. 1: Stack, ESP &amp; Bagfilters</b>)</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 456 m<sup>3</sup>/d (384m<sup>3</sup>/d of process and 72 m<sup>3</sup>/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"><b><u>Complied</u></b></p> <p>We strictly follow near ZLD (Zero Liquid Discharge) concept for the plant, the CT blow-down along with all other primary treated wastewater used for ash moistening, slag granulation, slag quenching, sprinkling on road and plantation and greenbelt development purpose as the existing practice (Water Balance diagram is enclosed for reference as - <b>Annexure 2</b>). The detailed water management carried out in all the process units is furnished below.</p> <p>- <b>POWER PLANT:</b> 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 &amp; 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 near</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>zero discharge by using treated effluent in the process</p> <p><b>-COAL WASHERY:</b> 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 &amp; magnetite is separated. Thus we are adopting closed circuit system.</p> <p><b>SPONGE IRON PLANT:</b> 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><b>SMS:</b> The unit has been provided with cooling cum re-cycle arrangements for the cooling waste water of EAF as well LRFS, settling tank &amp; 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><b>FAP:</b> The unit has provided with recycling arrangements for the cooling waste water of SAF &amp; surface run-off/effluent of Jigging &amp; 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><b>Rolling Mill:</b> The unit has been provided with cooling cum re-cycle arrangements for the cooling waste water of Rolling Mill, settling tank &amp; 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 &amp; 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 (Capacity 200 KLD each), rolling mill (10 KLD), canteen (10 KLD). The domestic waste water after treatment in STP are being used for dust suppression/green belt development. <b>(fig 2: All STPs)</b></p> |
| (iii) | In plant control measures for checking fugitive emission from spillage of raw materials handling   | <p align="center"><b><u>Complied</u></b></p> <p>Fugitive emission generation points like various stock house,</p>   |

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should be provided.

material transfer and junction points, product hoppers have been provided with appropriate suction device connected to bag filter.(Fugitive emission reports enclosed as **Annexure 3**)

Dust suppression system for raw material handling area has already been provided. All transfer points of belt conveyor have been provided with spray nozzles for suppressing the dust. All conveyors, transfer points etc has been provided with enclosures. Water spraying arrangement has been provided in coal yard, iron yard, truck tippler. We have already installed arm sprinklers for Coal & Iron Stock Yard.

In addition to above,

-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.



**(Figure 6: Water Sprinkler - Iron Ore Yard)**

-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.

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**(Figure 7: Water Tanker)**

-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. **(fig. 1: ESP & Bagfilters)**

- The solid waste generated is being suitably disposed off within the premises without creating any dust nuisance or environmental contamination.

-Material transportation through trucks, tippers etc is being carried out in covered condition to avoid spillages and dust emission.

However, in order to improve the AAQ in and around our plant premises, further, we have installed additional two nos of Bag Filters (Cap:85000m<sup>3</sup>/hr & 33,200 m<sup>3</sup>/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. **(fig. 6: DRI New Bagfilters)**

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



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

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.


**Complied**

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<sup>0</sup>C and at a particulate matter concentration below 100mg/Nm<sup>3</sup>. 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/Nm<sup>3</sup>


Fumes coming out from EAF at around 1200 °C is diluted and cooled in water cooled duct, gas cooler & mixing chamber to 120<sup>0</sup>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.



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|      |   |   |
|------|---|---|
|      | <p>Data on fugitive emissions should be regularly monitored and records maintained.</p>   | <p>The fumes of EAF &amp; LRFs after passing through common mixing chamber at a temp. of about 120 °C is cleaned in a common bag filter &amp; discharged to atmosphere through a common stack of height of 40 meter and at a particulate matter concentration below 100 mg/Nm<sup>3</sup>. <b>(fig. 5: Conveyor Belt Canopy Hood)</b></p> <p>Data on fugitive emission monitoring is enclosed at <b>(Annexure 3)</b> 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 /Nm<sup>3</sup>.</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"><b><u>Complied</u></b></p> <p>2x10 MW Waste heat recovery boilers (WHRB) have been installed for recovering sensible heat of waste gas coming out of 2x500 TPD DRI kilns at around 950-1000 °C with an inlet dust load of 2x30g/Nm<sup>3</sup>. Two no ESP (one per each boiler) has been installed to control the particulate emission below 100 mg/Nm<sup>3</sup> &amp; 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. (fig. 7: Waste Heat Recovery Boilers)</p>  <p align="center"><b>(figure 9: Waste Heat Recovery Boilers)</b></p> <p>Shall be Complied along with the installation of blast furnace. Blast Furnace has not been installed yet.</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"><b><u>Complied</u></b></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 &amp; USEPA approved equipment) for measuring the parameters such as PM<sub>10</sub>,PM<sub>2.5</sub>,SO<sub>2</sub>,NO<sub>x</sub>,CO and online continuous stack emission monitoring system for all power plant ESP stacks for measuring the parameters such as PM,SO<sub>2</sub>,NO<sub>x</sub> &amp; GCP(bag filter) stacks for measuring the parameters such as PM. Further, we have installed RT-DAS for AAQ and Stacks &amp; uploaded real time data to the OSPCB &amp; CPCB server through M/s Phoenix Robotics, Rourkela &amp; M/s ENVEA India Private Limited, Thane respectively. For remaining parameters &amp; for on line system calibration purpose we are carrying out Env. monitoring &amp; Analysis through <b>M/s Mitra S.K.Private Limited</b> (NABL &amp; MoEF authorized laboratory &amp; OSPCB em-paneled consultant). Monitoring Reports</p> |

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|        |   |   |
|--------|---|---|
|        |   | attached as ( <b>Annexure 4</b> ).  |
| (vi)   | Proper acoustic enclosures should be installed to control noise load from the DG sets as per EPA standards.                 | <p align="center"><b><u>Complied</u></b></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"><b><u>Complied</u></b></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>  <p align="center"><b>(figure 10: Housekeeping)</b></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"><b><u>Complied</u></b></p> <p>We have taken the following measures to reduce solid waste generation, its proper utilization and disposal:</p> <ul style="list-style-type: none"> <li>Adequate pneumatic dust handling system at the hoppers of CFBC (ESP), AFBC (ESP), WHRB (ESPs) &amp; DRI Bag Filters has already been installed &amp; operating satisfactorily.</li> <li>-Installed adequate pneumatic dust collection system at bag filter attached to EAF &amp; LRF followed by pug mill.</li> <li>-Collected dust from FAP Bag Filter is being utilized for Briquette making.</li> <li>-Dust &amp; Solid waste removal being carried out on regular basis by using loader, tractor/tipper etc. (<b>fig. 1: ESP &amp; Bagfilters</b>)</li> <li>- The solid waste generated is being suitably disposed off within the premises without creating any dust nuisance or environmental contamination.</li> </ul> <p>In addition to above, we have taken the following measures to further reduce solid waste generation, its proper utilization and disposal:</p> <ul style="list-style-type: none"> <li>-Constructed a new coal screening building 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.)</li> <li>-Middlings and rejects of coal washery are being used as fuel in boiler for generation of steam. Char generated is being utilized in AFBC &amp; CFBC power plant to the extent possible.</li> </ul> |

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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.

-Utilizing -1 mm microfines of coal in our CFBC Boiler.

-Installed briquette plant for briquette making utilizing bag filter chrome dust.

-DRI Bag filter dust is being utilized in Kiln firing to the extent possible.

-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.

Solid waste Management Report attached as **Annexure 5**.




**(figure 11: Jigging Plant)**

**Infrastructure & Mechanism:**

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

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|       |   |  |
|-------|---|--|
|       |   | <p>premises in any public place. <b>(figure 10: Solid Waste Yard)</b></p> <p><b><u>Fly Ash Management:</u></b><br/>                 We have achieved 100% utilization during 2024-25 by supplying to Brick Plants, Cement Plant &amp; In-house land filling. Fly-ash utilization report attached as <b>Annexure 6</b>.</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"><b><u>Complied</u></b></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 98550 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 @2500 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 <b>Annexure 7</b>.</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"><b><u>Complied</u></b></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 &amp; 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>  <p align="center"><b>(figure 12: Rain Water Harvesting Pit)</b></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"><b><u>Complied</u></b></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"><b><u>Complied</u></b></p> <p>The CREP recommendation already implemented.</p>   |


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| <b>Sl</b> | <b>General Conditions</b>  | <b>Compliance Status (April'24 to September'24)</b>   |
|-----------|--|---|
| B (i)     | The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board and the State Government.  | Accepted.   |
| (ii)      | No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.  | Accepted.   |
| (iii)     | At least four ambient air quality-monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the State Pollution Control Board / Central Pollution Control Board once in six months.<br><br>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 align="center"><b><u>Complied</u></b></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 PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the Odisha State Pollution Control Board.<br><br>Data on ambient air quality monitored for the parameters PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> , CO and Data on Stack air quality monitored for the parameters PM, SO <sub>2</sub> , NO <sub>x</sub> , temperature and velocity for running plants is being submitted once in six months. <b>(fig. 4: AAQMS Station)</b>  |
| (iv)      | Industrial waste water should be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended form time to time. The treated wastewater should be utilized for plantation purpose.   | <p align="center"><b><u>Complied</u></b></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 19 <sup>th</sup> May,1993 and 31 <sup>st</sup> December,1993 or as amended from time to time is not applicable to our case.  |
| (v)       | The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time)   | <p align="center"><b><u>Complied</u></b></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 <b>Annexure 8</b> . |
| (vi)      | The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report.<br><br>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 align="center"><b><u>Complied</u></b></p> All the environment protection measures and safeguards recommended in the EIA/EMP report are being complied in a phased manner.<br><br>Social infrastructure and peripheral development work report done so far has been attached vide <b>Annexure 9</b> .<br><br>Further regarding health care- regular health checkup of local people of Dhurusia, Mahakalabasta, Ghantikhal & Kakhadi villages are being carried out by our company Doctor & Pharmacist using mobile health van.  |



**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 April'24 to September'24**

|        |   |   |
|--------|---|---|
| (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.   | <p align="center"><b><u>Complied</u></b></p> <p>Please refer <b>Annexure 10</b> 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 30.09.2024 by Aarti Steels Limited, Ghantikhal is enclosed vide <b>Annexure 10</b>.</p> |
| (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.   | <p align="center"><b><u>Complied</u></b></p> <p>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.</p>                                      |
| (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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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. | <p align="center"><b><u>Complied</u></b></p> <p>Already Complied (copy of the advertisement is enclosed as <b>Annexure 12</b> for reference).</p>   |
| (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.   | <p>Date of financial closure of the project: March, 2004.<br/>Date of Final approval of the project: February, 2005<br/>Date of commencing the land development work: Sept., 2004.</p>  |
| (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

**Ganeswar Panigrahi**  
 Factory Manager  
 Aarti Steels Ltd.



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 April'24 to September'24

Figure 1 (Stack, ESP & Bag Filter)





**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 April'24 to September'24**



**DRI Stack-1**



**DRI Stack-2**



**Rolling mill**



**FAP**



**SMS-1**

**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 April'24 to September'24**

**Figure 2 (STP Details)**



**Staff Colony**



**Bachelor Colony**



**Canteen**



**Rolling Mill**



**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 April'24 to September'24**

**Figure 3: (Solid Waste Yard)**



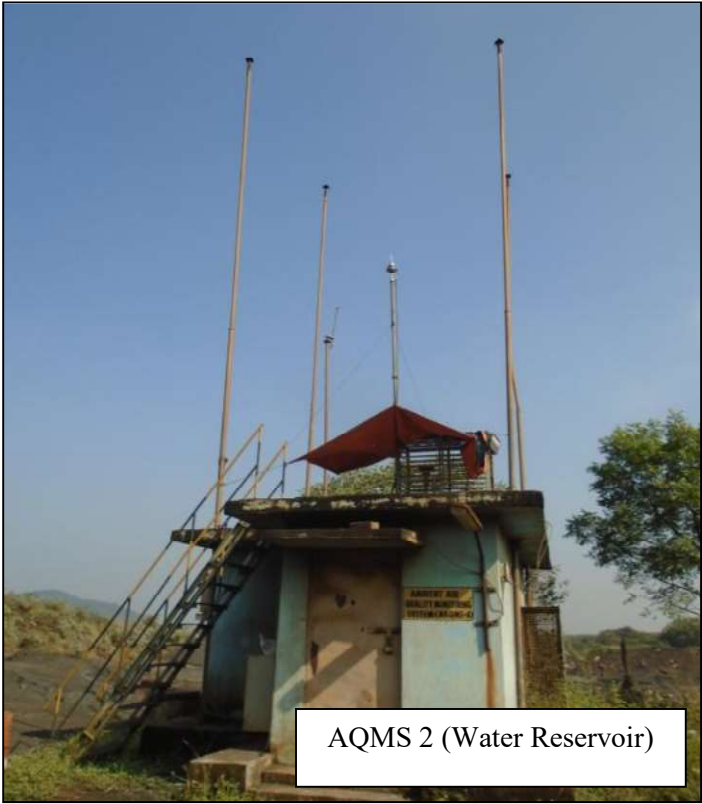


Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance granted in favour of Integrated Steel Plant, Cuttack of M/s. Aarti Steels Limited for April'24 to September'24

Figure 4: (AAQMS Station)



AQMS 3 (Guest House)



AQMS 2 (Water Reservoir)



AQMS 1 (Bachelor Colony)



AQMS 4 (Ferro Alloy)

**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 April'24 to September'24**

**Figure 5: (Conveyor Belt Canopy Hood)**



**CHP**



**DRI**



**Power Plant**



**FAP**



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**Figure 6: (Internal Road)**



Way to SMS



Rolling Mill



Way to FAP



Way to Admin Building



Way to CHP



Way to Guest House

**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 April'24 to September'24**



Way to Power Plant



Guest House to Main Gate



Way to DRI



Way to Main-Gate



**Annexure-1****PHASE-WISE DEVELOPMENT OF PROJECT AND PROGRESS ON THE CONSTRUCTION OF THE PROJECT**

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



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

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

M/s. Aarti Steels Limited  
 AT CHANDERNAGAR  
 P.O. ...  
 Via Allapattanam Cuttack

M/s. Aarti Steels Limited  
 AT CHANDERNAGAR  
 P.O. ...  
 Via Allapattanam Cuttack



Plot No-687/2428, Ekamra Villa Square,  
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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/509  
Date : 28.06.2024  
Sample No. : MSKGL/ED/2024-25/05/00870  
Sample Description : Fugitive Air

### Analysis Result of Fugitive Air


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

Note-1.(Standard as per Environment (protection) (4<sup>th</sup> 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,  
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## TEST REPORT

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

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

### Analysis Result of Fugitive Air

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

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

Report Prepared by:



For Mitra S. K. Private Limited



Authorized Signatory

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## TEST REPORT

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

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

### Analysis Result of Fugitive Air

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

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

Report Prepared by: 



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## TEST REPORT


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

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

### Analysis Result of Fugitive Air

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

Note-1.(Standard as per Environment (protection) (4<sup>th</sup> 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



# Mitra S. K. Private Limited

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## TEST REPORT

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

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

### Analysis Result of Fugitive Air

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

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

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory

# Mitra S. K. Private Limited



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## TEST REPORT

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

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

### ANALYSIS RESULT

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

Report Prepared by:

*Subhira*



For Mitra S. K. Private Limited

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

## ANALYSIS RESULT

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

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory

# Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,  
Jaydev Vihar, 1<sup>st</sup> Floor, IRC Village,  
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[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/308  
**Date :** 16.07.2024  
**Sample No. :** MSKGL/ED/2024-25/06/00400  
**Sample Description :** Flue Gas Monitoring  
**Date of Sampling :** 14.06.2024  
**Time of Sampling :** 04:32 PM

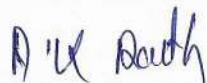
## ANALYSIS RESULT

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

Report Prepared by: 



For Mitra S. K. Private Limited

  
Authorized Signatory



Plot No-687/2428, Ekamra Villa Square,  
Jaydev Vihar, 1<sup>st</sup> 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/309  
**Date :** 16.07.2024  
**Sample No. :** MSKGL/ED/2024-25/06/00401  
**Sample Description :** Flue Gas Monitoring  
**Date of Sampling :** 14.06.2024  
**Time of Sampling :** 12.05 PM

## ANALYSIS RESULT

| <b>A. General information about stack :</b>                               |  |                              |                                       |
|---|--|------------------------------|---------------------------------------|
| 1.  | Stack connected to   | WHRB-II Outlet               |                                       |
| 2.  | Emission due to  | Burning of Coal              |                                       |
| 3.  | Material of construction of stack                          | RCC                          |                                       |
| 4.  | Shape of Stack   | Rectangular                  |                                       |
| 5.  | Whether stack is provided with permanent platform & ladder | Yes                          |                                       |
| <b>B. Physical characteristics of stack :</b>                             |  |                              |                                       |
| 1.  | Height of the Stack from Ground level                      | 60 m                         |                                       |
| 2.  | Diameter of the stack at sampling point                    | 3m x 3.4m                    |                                       |
| 3.  | Area of stack  | 10.2 m <sup>2</sup>          |                                       |
| <b>C. Analysis/Characteristic of stack:</b>                               |  |                              |                                       |
| 1.  | Fuel used : Coal   | 2. Fuel Consumption : 28 TPH |                                       |
| <b>D. Results of sampling &amp; analysis of gaseous emission</b>          |  |                              |                                       |
|   |  | <b>Result</b>                | <b>Prescribed standard as per CTO</b> |
|   |  |                              | <b>Method</b>                         |
| 1.  | Temperature of Emission ( °C)                              | 190                          | EPA Part 2                            |
| 2.  | Barometric pressure (mm of Hg)                             | 757                          | EPA Part 2                            |
| 3.  | Velocity of gas (m/sec.)                                   | 6.84                         | EPA Part 2                            |
| 4.  | Quantity of Gas Flow (Nm <sup>3</sup> /hr)                 | 151229                       | EPA Part 2                            |
| 5.  | Concentration of Carbon monoxide ( % v/v )                 | <0.2                         | 1 %<br>IS 13270:1992                  |
| 6.  | Concentration of Carbon Dioxide ( % v/v)                   | 6.1                          | IS 13270:1992                         |
| 7.  | Concentration of Oxygen ( % v/v)                           | 13.2                         | IS 13270:1992                         |
| 8.  | Concentration of Sulphur Dioxide (mg/Nm <sup>3</sup> )     | 408.0                        | USEPA Part-6-25/09/1996               |
| 9.  | Concentration of Nitrogen Oxides (mg/Nm <sup>3</sup> )     | 280.0                        | USEPA Part-7-12/03/1996               |
| 10.   | Concentration of Particulate Matters (mg/Nm <sup>3</sup> ) | 61.8                         | 100<br>USEPA Part-5-16/08/1996        |
| <b>E. Pollution control device</b>  |  |                              |                                       |
| Details of pollution control devices attached with the stack : Bag Filter |  |                              |                                       |
| <b>F. Remarks : Nil</b>   |  |                              |                                       |

Report Prepared by: 



For Mitra S. K. Private Limited

  
Authorized Signatory



Plot No-687/2428, Ekamra Villa Square,  
Jaydev Vihar, 1<sup>st</sup> Floor, IRC Village,  
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## TEST REPORT

F : (0674) 2362918  
**Name & Address of the Customer :**  
**AARTI STEELS LIMITED'**  
Ghantikhal , Athagarh , Cuttack

**Report No. :** BBS/306  
**Date :** 16.07.2024  
**Sample No. :** MSKGL/ED/2024-25/06/00940  
**Sample Description :** Flue Gas Monitoring  
**Date of Sampling :** 14.06.2024  
**Time of Sampling :** 02:38 PM.

### ANALYSIS RESULT

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

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

### ANALYSIS RESULT

| 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 <sup>2</sup>     |                                |                          |
| 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)                               | 123                      |                                | EPA Part 2               |
| 2.   | Barometric pressure (mm of Hg)                             | 756                      |                                | EPA Part 2               |
| 3.   | Velocity of gas (m/sec.)                                   | 16.9                     |                                | EPA Part 2               |
| 4.   | Quantity of Gas Flow (Nm <sup>3</sup> /hr)                 | 318694                   |                                | EPA Part 2               |
| 5.   | Concentration of Carbon Dioxide (% v/v)                    | 5.3                      |                                | IS 13270:1992            |
| 6.   | Concentration of Oxygen (% v/v)                            | 14.8                     |                                | IS 13270:1992            |
| 7.   | Concentration of Carbon Monoxide (% v/v)                   | <0.2                     | 1 %                            | IS 13270:1992            |
| 8.   | Concentration of Mercury (mg/Nm <sup>3</sup> )             | 0.027                    | 0.03                           | IS 13270:1992, Reaf:2009 |
| 9.   | Concentration of Sulphur Dioxide (mg/Nm <sup>3</sup> )     | 398.4                    | 600                            | USEPA Part-6-25/09/1996  |
| 10.  | Concentration of Nitrogen Oxides (mg/Nm <sup>3</sup> )     | 184.2                    | 450                            | USEPA Part-7-12/03/1996  |
| 11.  | Concentration of Particulate Matters (mg/Nm <sup>3</sup> ) | 47.8                     | 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: *[Signature]*



For Mitra S. K. Private Limited

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

### ANALYSIS RESULT

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

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory



# Mitra S. K. Private Limited

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

### ANALYSIS RESULT

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

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory

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

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

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

### ANALYSIS RESULT

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

Report Prepared by: 



For Mitra S. K. Private Limited

  
Authorized Signatory



# Mitra S. K. Private Limited



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## TEST REPORT

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

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

## ANALYSIS RESULT

|            |  |                              |                                       |                         |
|------------|--|------------------------------|---------------------------------------|-------------------------|
| <b>A .</b> | <b>General information about stack :</b>   |                              |                                       |                         |
| 1.         | Stack connected to   | WHRB-II Outlet               |                                       |                         |
| 2.         | Emission due to  | Burning of Coal              |                                       |                         |
| 3.         | Material of construction of stack  | RCC                          |                                       |                         |
| 4.         | Shape of Stack   | Rectangular                  |                                       |                         |
| 5.         | Whether stack is provided with permanent platform & ladder   | Yes                          |                                       |                         |
| <b>B .</b> | <b>Physical characteristics of stack :</b>   |                              |                                       |                         |
| 1.         | Height of the Stack from Ground level  | 60 m                         |                                       |                         |
| 2.         | Diameter of the stack at sampling point  | 3m x 3.4m                    |                                       |                         |
| 3.         | Area of stack  | 10.2 m <sup>2</sup>          |                                       |                         |
| <b>C .</b> | <b>Analysis/Characteristic of stack:</b>   |                              |                                       |                         |
| 1.         | Fuel used : Coal   | 2. Fuel Consumption : 28 TPH |                                       |                         |
| <b>D .</b> | <b>Results of sampling &amp; analysis of gaseous emission</b>  | <b>Result</b>                | <b>Prescribed standard as per CTO</b> | <b>Method</b>           |
| 1.         | Temperature of Emission ( °C)  | 201                          |                                       | EPA Part 2              |
| 2.         | Barometric pressure (mm of Hg)   | 751                          |                                       | EPA Part 2              |
| 3.         | Velocity of gas (m/sec.)   | 8.14                         |                                       | EPA Part 2              |
| 4.         | Quantity of Gas Flow (Nm <sup>3</sup> /hr)   | 184531                       |                                       | EPA Part 2              |
| 5.         | Concentration of Carbon monoxide (% v/v )  | <0.2                         | 1 %                                   | IS 13270:1992           |
| 6.         | Concentration of Carbon Dioxide (% v/v)  | 6.4                          |                                       | IS 13270:1992           |
| 7.         | Concentration of Oxygen (% v/v)  | 13.0                         |                                       | IS 13270:1992           |
| 8.         | Concentration of Sulphur Dioxide (mg/Nm <sup>3</sup> )   | 421.6                        |                                       | USEPA Part-6-25/09/1996 |
| 9.         | Concentration of Nitrogen Oxides (mg/Nm <sup>3</sup> )   | 118.0                        |                                       | USEPA Part-7-12/03/1996 |
| 10.        | Concentration of Particulate Matters (mg/Nm <sup>3</sup> )   | 64.9                         | 100                                   | USEPA Part-5-16/08/1996 |
| <b>E .</b> | <b>Pollution control device</b><br>Details of pollution control devices attached with the stack : Bag Filter |                              |                                       |                         |
| <b>F .</b> | <b>Remarks :</b> 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/210  
Date : 15.10.2024  
Sample No. : MSKGL/ED/2024-25/09/00470  
Sample Description : Ambient Air Monitoring  
Sampling Location : AAQM-3(Guest House)  
Date of Sampling : 13.09.2024

## ANALYSIS RESULT

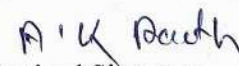
| Sl. No | POLLUTANT   | RESULT | LIMIT | METHOD OF TEST REFERENCE  |
|--------|---|--------|-------|---|
| 1.     | Particulate matter (<10µm) in µg/m <sup>3</sup>               | 74.2   | 100   | IS: 5182 (Part-23)-2006   |
| 2.     | Particulate matter (<2.5µm) in µg/m <sup>3</sup>              |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

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

Report Prepared by: 



For Mitra S.K. Private Limited

  
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# Mitra S. K. Private Limited



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## TEST REPORT

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

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

## ANALYSIS RESULT

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

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

Report Prepared by:



For Mitra S.K. Private Limited

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## TEST REPORT

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

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


### ANALYSIS RESULT

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

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**For Mitra S.K. Private Limited**

  
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## TEST REPORT

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

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

## ANALYSIS RESULT

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

Prepared By:-



**For Mitra S.K. Private Limited**

  
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## TEST REPORT

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

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


### ANALYSIS RESULT

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

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# Mitra S. K. Private Limited

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## TEST REPORT

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

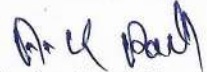
**Report No. :** BBS/502  
**Date :** 13.05.2024  
**Sample No. :** MSKGL/ED/2023-24/04/01167  
**Sample Description :** Effluent Water  
**Sampling Location :** STP Outlet (Bachelor Colony  
Capacity 200 KLD)  
**Date of sampling :** 25.04.2024

### ANALYSIS RESULT

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

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For Mitra S.K. Private Limited

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

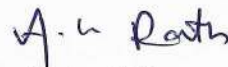
### ANALYSIS RESULT

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

Prepared By:-



For Mitra S.K. Private Limited

  
Authorized Signatory



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## TEST REPORT

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

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

### ANALYSIS RESULT

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

Prepared By:-



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

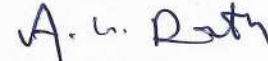
### ANALYSIS RESULT

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

Prepared By:- 



**For Mitra S.K. Private Limited**



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## TEST REPORT

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

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


### ANALYSIS RESULT

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

Prepared By:- 



For Mitra S.K. Private Limited

  
Authorized Signatory

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## TEST REPORT

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

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

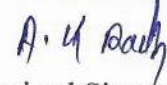
### ANALYSIS RESULT

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

Prepared By: 



**For Mitra S.K. Private Limited**

  
Authorized Signatory



Plot No-687/2428, Ekamra Villa Square,  
Jaydev Vihar, 1<sup>st</sup> 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/301  
**Date :** 16.07.2024  
**Sample No. :** MSKGL/ED/2024-25/06/00931  
**Sample Description :** Effluent Water  
**Sampling Location :** STP Outlet (Near Staff  
Canteen Capacity 10 KLD)  
**Date of sampling :** 14.06.2024

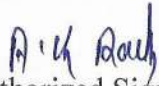
### ANALYSIS RESULT

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

Prepared By:- 



**For Mitra S.K. Private Limited**

  
Authorized Signatory

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## TEST REPORT

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

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


### ANALYSIS RESULT

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

Prepared By: 



**For Mitra S.K. Private Limited**

  
Authorized Signatory



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## TEST REPORT

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

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

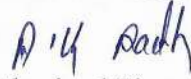
## ANALYSIS RESULT

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

Prepared By:- 



**For Mitra S.K. Private Limited**

  
Authorized Signatory

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## TEST REPORT

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

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


### ANALYSIS RESULT

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

Prepared By:- 

**For Mitra S.K. Private Limited**



  
Authorized Signatory



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## TEST REPORT

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

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

### ANALYSIS RESULT

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

Prepared By:- 



For Mitra S.K. Private Limited

  
Authorized Signatory

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

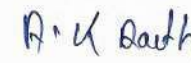
### ANALYSIS RESULT

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

Prepared By:- 



For Mitra S.K. Private Limited

  
Authorized Signatory



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## TEST REPORT

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

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

## ANALYSIS RESULT

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

Prepared By:- 



For Mitra S.K. Private Limited

  
Authorized Signatory

# Mitra S. K. Private Limited



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## TEST REPORT

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

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

## ANALYSIS RESULT

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

Prepared By:-



For Mitra S.K. Private Limited

*A. K. Paul*  
Authorized Signatory



Plot No-687/2428, Ekamra Villa Square,  
Jaydev Vihar, 1<sup>st</sup> 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/301  
Date : 07.09.2024  
Sample No. : MSKGL/ED/2024-25/08/00631  
Sample Description : Effluent Water  
Sampling Location : STP Outlet (Near Staff  
Canteen Capacity 10 KLD)  
Date of sampling : 08.08.2024

### ANALYSIS RESULT

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

Prepared By:- 



For Mitra S.K. Private Limited

  
Authorized Signatory


## TEST REPORT

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

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

## ANALYSIS RESULT

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

Prepared By: 



For Mitra S.K. Private Limited

  
Authorized Signatory



# Mitra S. K. Private Limited



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[CIN: U51909WB1956PTC023037]  
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F : (0674) 2362918

## TEST REPORT

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

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

### ANALYSIS RESULT

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

Prepared By:-



For Mitra S.K. Private Limited

Authorized Signatory

# Mitra S. K. Private Limited



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## TEST REPORT

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

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


## ANALYSIS RESULT

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

Prepared By:- 

For Mitra S.K. Private Limited



  
Authorized Signatory



# Mitra S. K. Private Limited

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[CIN: U51909WB1956PTC023037]  
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F : (0674) 2362918



## TEST REPORT

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

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

### ANALYSIS RESULT

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

Prepared By:-

For Mitra S.K. Private Limited



*A. U. Rath*  
Authorized Signatory

# Mitra S. K. Private Limited

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

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

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

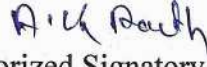
### ANALYSIS RESULT

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

Prepared By: 



For Mitra S.K. Private Limited

  
Authorized Signatory



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

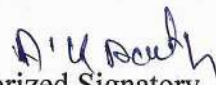
### ANALYSIS RESULT

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

Prepared By:- 



**For Mitra S.K. Private Limited**

  
Authorized Signatory

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

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

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

### ANALYSIS RESULT

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

Prepared By:- 



For Mitra S.K. Private Limited

  
Authorized Signatory



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## TEST REPORT

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

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

## ANALYSIS RESULT

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

Prepared By:- 



**For Mitra S.K. Private Limited**

  
Authorized Signatory

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## TEST REPORT

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

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

### ANALYSIS RESULT

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

Prepared By:- 

**For Mitra S.K. Private Limited**



  
Authorized Signatory



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[CIN: U51909WB1956PTC023037]  
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## TEST REPORT

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

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

### ANALYSIS RESULT

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

Prepared By:- 



For Mitra S.K. Private Limited

  
Authorized Signatory

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[CIN: U51909WB1956PTC023037]  
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F : (0674) 2362918

## TEST REPORT

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

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

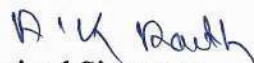
### ANALYSIS RESULT

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

Prepared By:- 



For Mitra S.K. Private Limited

  
Authorized Signatory



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[CIN: U51909WB1956PTC023037]  
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## TEST REPORT

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

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

### ANALYSIS RESULT

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

Prepared By:- 



For Mitra S.K. Private Limited

  
Authorized Signatory

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

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

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

### ANALYSIS RESULT

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

Prepared By:- 



For Mitra S.K. Private Limited

  
Authorized Signatory



# Mitra S. K. Private Limited



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

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

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

### ANALYSIS RESULT

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

Prepared By:-



**For Mitra S.K. Private Limited**

Authorized Signatory

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[CIN: U51909WB1956PTC023037]  
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## TEST REPORT

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

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

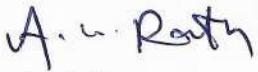
### ANALYSIS RESULT

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

Prepared By: 



For Mitra S.K. Private Limited

  
Authorized Signatory



**M/s AARTI STEELS LIMITED, GHANTIKHAL, CUTTACK**

**Solid Waste Management Report for the Year (April 2024 - September 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   | 15877.73   | 650.98                  | 4.10               | Disposed off for road making/land filling/disposal after iron recovery.         |
| 2            | 2 X 500 TPD DRI       | Char                                   | 132000  | 41566.00   | 25223.00                | 60.68              | Used as Fuel in power plant.  |
|              |                       | Iron Fines                             | 132000  | 52419.67   | 39855.49                | 76.03              | Being sold  |
|              |                       | Wet scrapper sludge                    | 10560   | 3849.00  | 2000.00                 | 51.96              | Being Sold  |
|              |                       | DE Dust                                | 21450   | 8670.00  | 8670.00                 | 100.00             | DE dust is used in DRI after burning chamber for energy recovery.               |
| 3            | 90 MW Power Plant     | Fly ash from AFBC, CFBC, WHRB - I & II | 207000  | 80174.00   | 80174.00                | 100.00             | Used by supplying fly ash to cement & Brick manufacturing units.                |
|              |                       | Bottom ash from AFBC, CFBC,            | 90000   | 29253.00   | 29253.00                | 100.00             | Road making,land fillings and supply for paver blocks making                    |
| 4            | 2 X 9 MVA             | Slag                                   | 25000   | 8120.00  | 7550.00                 | 92.98              | Road making,land filling and balance is disposed in the allocated disposal site |
| 5            | 1 x 18 MVA            | Slag                                   | 25000   | 13608.00   | 12600.00                | 92.59              | Road making,land filling and balance is disposed in the allocated disposal site |
| 6            | 0.2 MTPA Rolling Mill | Mill Scale                             | 2400  | 646.00   | 646.00                  | 100.00             | Being sold  |
| <b>Total</b> |                       |  | <b>701510.00</b>                                  | <b>254183.40</b>                                     | <b>206622.47</b>        | <b>81.29</b>       |   |



## ASH UTILIZATION DETAILS

(April 24 - Sept 24)

| 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      | 2024-25 | 90 MW          | 247261                    | 202734                        | 80174                         | 29253                            | 109427              |

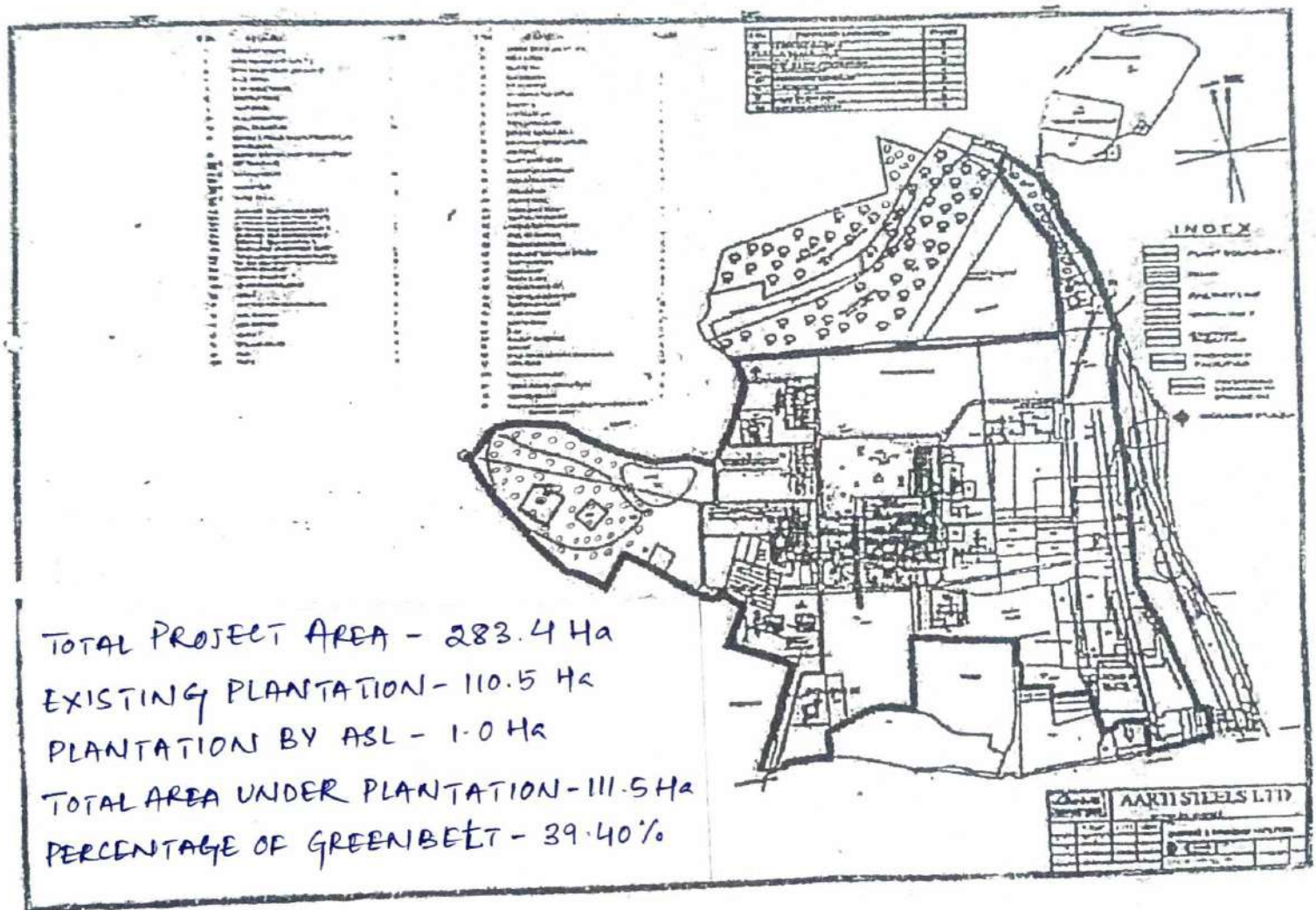
### ASH UTILIZATION IN MT

| 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) |
|-----------------------------|---------------------------|------------------------|------------------|---------------------|-------------------------|------------|-----------------|------------------------------------|-------------|---------------------------------------|-----------------------------|
| 109427                      | 0                         | 9690                   | 664              |                     | 105521                  | 0          | 0               | 0                                  | 0           | 0                                     | 0                           |

| Ash Pond | Total Ash Utilized | Cumulative quantity of ash utilized | Cumulative total of ash not utilized | % of utilization | Likely increase in ash generation |
|----------|--------------------|-------------------------------------|--------------------------------------|------------------|-----------------------------------|
| 6724     | 122599             |                                     |                                      | 100              |                                   |







# Mitra S. K. Private Limited



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[CIN: U51909WB1956PTC023037]  
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## TEST REPORT

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

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

### Noise Level Monitoring Data

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




Report No: BBS/503

Date: 13.05.2024

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

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

For Mitra S. K. Private Limited

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

### ANALYSIS RESULT

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

### Noise Limit as per CPCB

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

Report Prepared by:

For Mitra S. K. Private Limited



Authorized Signatory



# Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,  
Jaydev Vihar, 1<sup>st</sup> 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 : 28.06.2024  
Sample No. : MSKGL/ED/2024-25/05/00450  
Sample Description : Ambient Noise

### ANALYSIS RESULT

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

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

Report Prepared by: 



For Mitra S. K. Private Limited

  
Authorized Signatory

Plot No-687/2428, Ekamra Villa Square,  
Jaydev Vihar, 1<sup>st</sup> 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/506  
Date : 28.06.2024  
Sample No. : MSKGL/ED/2024-25/05/00580  
Sample Description : Noise ( Work Zone )

### Noise Level Monitoring Data

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



Report No: BBS/506

Date: 28.06.2024

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

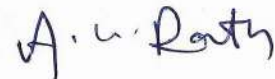
**OSHA'S Permissible Noise Exposure Limits**

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

Report Prepared by:




For Mitra S. K. Private Limited



Authorized Signatory

# Mitra S. K. Private Limited



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

## TEST REPORT

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

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

### ANALYSIS RESULT

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

### Noise Limit as per CPCB

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

Report Prepared by: 



For Mitra S. K. Private Limited

  
Authorized Signatory



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

## TEST REPORT

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

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

### Noise Level Monitoring Data


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

Report No: BBS/305

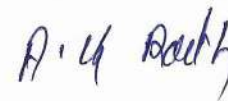
Date: 16.07.2024

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

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

Report Prepared by: 

For Mitra S. K. Private Limited



Authorized Signatory



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

## TEST REPORT

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

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

### Noise Level Monitoring Data

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


Report No: BBS/209

Date: 06.09.2024

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

**OSHA'S Permissible Noise Exposure Limits**

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

Report Prepared by: 

For Mitra S. K. Private Limited

A.K. Raut

Authorized Signatory



Plot No-687/2428, Ekamra Villa Square,  
Jaydev Vihar, 1<sup>st</sup> 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<sup>o</sup>**  
Ghantikhal, Athagarh, Cuttack


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

### ANALYSIS RESULT

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

### Noise Limit as per CPCB

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

Report Prepared by: 



For Mitra S. K. Private Limited

  
Authorized Signatory

# Mitra S. K. Private Limited



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

## TEST REPORT

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

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

### Noise Level Monitoring Data

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




Report No: BBS/304

Date: 07.09.2024

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

**OSHA'S Permissible Noise Exposure Limits**

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

Report Prepared by: 

For Mitra S. K. Private Limited



Authorized Signatory

# Mitra S. K. Private Limited



Plot No-687/2428, Ekamra Villa Square,  
Jaydev Vihar, 1<sup>st</sup> Floor, IRC Village,  
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[CIN: U51909WB1956PTC023037]  
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F : (0674) 2362918

## TEST REPORT

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

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

### ANALYSIS RESULT

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

### Noise Limit as per CPCB

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

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

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory



# Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,  
Jaydev Vihar, 1<sup>st</sup> 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 :** 15.10.2024  
**Sample No. :** MSKGL/ED/2024-25/09/00600  
**Sample Description :** Noise ( Work Zone )

### Noise Level Monitoring Data


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

Report No: BBS/204

Date: 15.10.2024

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

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

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<sup>st</sup> Floor, IRC Village,  
Bhubaneswar, Khordha, Odisha-751015  
[CIN: U51909WB1956PTC023037]  
T : (0674) 2360917, 9777450189  
F : (0674) 2362918



## TEST REPORT

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

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

### ANALYSIS RESULT

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

### Noise Limit as per CPCB

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

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory

**CONSOLIDATED PERIPHERAL EXPENDITURES IN**  
**DIFFERENT HEADS up to 30.11.24**

| SL NO | PARTICULARS                                       | AMOUNT                 |
|-------|---|------------------------|
| 01    | HEALTH CARE                                       | 8,20,697.00            |
| 02    | EDUCATION   | 2,23,700.00            |
| 03    | SPORTS  | 26,000.00              |
| 04    | COMMUNITY DEVELOPMENT,<br>SOCIAL WELFARE & OTHERS | 12,25,650.00           |
|       | <b>TOTAL</b>                                      | <b>Rs 22,96,047.00</b> |





**Expenditure Incurred on Environmental Protection Measures till by Aarti Steels Limited, for the period 01.04.2023 to 30.10.2024**

- 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 168.225 crore.

| Sl. No. | Category                     | Total Cost incurred till 31.03.2024 (in Crore) | Total Cost incurred till 30.10.2024 (in Crore) |
|---------|------------------------------|--|--|
| 1.      | Air Pollution Control        | 88.76  | 75.97  |
| 2.      | Water Pollution Control      | 8.324  | 5.09   |
| 3.      | Conservation of Resources    | 1.06926  | 1.01   |
| 4.      | Noise Pollution Control      | 0.159  | 0.2125   |
| 5.      | Environment Monitoring       | 14.986   | 10.87  |
| 6.      | Occupational Health          | 2.7522   | 8.03   |
| 7.      | Green Belt Development       | 2.666  | 12.65  |
| 8.      | House Keeping                | 11.497   | 7.55   |
| 9.      | Peripheral Development       | 7.1423   | 2.296  |
| 10.     | Solid Waste Management       | 28.6164  | 22.35  |
| 11.     | Hazardous Waste Management   | 0.553  | 0.61   |
| 12.     | Statutory Fees               | 2.729  | 14.9   |
| 13.     | Bio-medical Waste Management | 0.023  | 0.019  |
| 14.     | Others                       | 0.687  | 6.664  |
|         | <b>Total</b>                 | <b>169.964</b>                                 | <b>168.225</b>                                 |



Annexure -

Annexure - XII

## CHAPTER - IX

### 9.1 ORGANISATION, MANPOWER AND FISCAL ESTIMATE

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

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

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

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





ଅନୁମତି ପ୍ରାପ୍ତ

Dhivani Poudhwarani



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

Date

## NOTICE

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

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

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

For the above purpose, a person will only mean :

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

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

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

- 1. District Collector's Office, Cuttack
- 2. District Industrial Centre, Cuttack
- 3. In the office of the chief Executive Officer of Zilla Parishad, Cuttack
- 4. In the head office of the Orissa Pollution Control Board, Parivash Bhawan, A/118, Nilakantha Nagar, Unit -VII, Bhubaneswar -12
- 5. Regional Office, Orissa Pollution Control Board, 56B, Surya Vihar, Link Road Cuttack
- 6. Department of Forest & Environment ( Environment) Govt of Orissa, Bhubaneswar.
- 7. Office of the Mahakalahasta & Ghantikhal, Grampanchayat.

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

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

By order of Chairman

MEMBER SECRETARY



## 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. Sudeepta Ranjan Khatua, M.Sc (Env. Sci & Sustainable mngt.) - Engineer (Environment)
5. Mr. Santosh Kumar Khuntia, Jr Gardner
6. Mr. Harihar Samal, Env. Attendent

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

The organization structure of Environment Department is given below.



# AARTI STEELS LIMITED

## ENVIRONMENT CELL

