



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

# AARTI STEELS LIMITED

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E-mail : [cuttack@artisteelsltd.com](mailto:cuttack@artisteelsltd.com)

Ref:ASL/EC-2009/Env./

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, Chandrasekharapur,  
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 in respect of Expansion Project to the project by Aarti Steels Limited at village Ghantikhal in dist. Cuttack in Odisha- reg.**

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


Respected Sir,

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

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**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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# **Half-Yearly Compliance Report**

on

## **Environmental Clearance Conditions**

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

**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)	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted.	<p align="center"><b><u>Complied</u></b></p> <p>Fugitive emission generation points like various stock house, material transfer and junction points, product hoppers have been provided with appropriate suction device connected to bag filter. 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, truck tippler. We have already installed arm sprinklers for Coal Stock Yard.</p> <p>In addition to above,</p> <p>-Regular water Spraying &amp; cleaning is being practiced on the internal roads. All major internal roads of approx.6.7 KM length have already been blacktopped.</p>  <p align="center"><b>(Figure 6: Water Sprinkler - Iron Ore Yard)</b></p> <p>-We have installed arm sprinklers for dust suppression at Coal Yard, Coal Washery area for dust suppression.</p> <p>-We have provided rotating sprinkler system in DRI unit, Iron Ore Crushing unit for dust suppression.</p> <p>-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.</p> <p>-We have already installed rotating sprinklers in FAP unit.</p> <p>-Adequate dust handling system at the hoppers of CFBC (ESP), AFBC ESP, WHRB ESPs &amp; DRI Bag Filters has already been installed &amp; operating satisfactorily. Collected dust/ash in silos is being disposed off to cement plants/Brick plants. <b>(fig. 1: Stack, ESP &amp; Bagfilters)</b></p>

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**(Figure 7: Water Tanker)**

- 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: 85000 m<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. 8: DRI New Bagfilters - Cap:85,000m<sup>3</sup>/hr)**

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	<p>On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks.</p> <p>Sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm<sup>3</sup>.</p> <p>Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.</p>	 <p align="center"><b>(figure 8: DRI New Bagfilters - Cap:33,200 m3/hr)</b></p> <p align="center"><b><u>Complied</u></b></p> <p>-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 ESP &amp; GCP stacks for as per OSPCB guidelines for measuring the required parameters. 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. <b>(fig. 4: AAQMS Station)</b></p> <p align="center"><b><u>Complied</u></b></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 standard.</p> <p align="center"><b><u>Complied</u></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> <p>We have examined the technical aspects of providing interlocking facility for tripping the plant when emission exceeds the prescribed standard. Although technically it is possible but consequential effect will be severe. There will be profuse emission for long duration as Kiln/boilers/furnaces will be required to be cooled for safety of equipment. During this cooling cycle there will be intense emission from stack. Instead of interlocking, we undertake to rectify the Pollution Control Devices quickly so that emission is brought below standard level within shortest possible time.</p>
(ii)	<p>Hot gases from DRI kiln shall pass through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in Waste Heat Recovery Boiler (WHRB). The gas then shall be cleaned in</p>	<p align="center"><b><u>Complied</u></b></p> <p>We are yet to install Sinter Plant, Blast Furnace, DRI &amp; Coke Oven as per expansion programme. Out of expansion facilities, so far we have installed 50 MW Power plant and 1x18 MVA</p>

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	<p>ESP before leaving out into the atmosphere through ID fan and Stack. Electrostatic precipitator (ESP) shall be provided to DRI plant, Captive Power plant and Sinter plant to control air emissions within 100 mg/Nm<sup>3</sup>. Bag filters shall be provided to submerged arc furnace. Dry fog system will be provided to coal washery. Dust extraction system with bag filters shall be provided to the Coke oven. Bag filters shall be provided to submerged arc furnace. Gas cleaning plant having dust catcher and bag filter shall be provided to Blast furnace (BF). Bag house shall be provided to BF-Dry gas cleaning system.</p>	<p>FAP.</p> <p>In our 50 MW power plant (already commissioned in March,2010), Flue gas from CFBC (with inlet dust concentration of around 100 gm/Nm<sup>3</sup>) passes through economizer followed by air pre heater &amp; ESP (6 fields) before getting emitted through a RCC stack of height 101m (quantity of emission-approx. 4,00,000 Nm<sup>3</sup>/hr). The ESP has been installed to control air emissions within 50 mg/Nm<sup>3</sup>.</p> <p>Also, GCP (Bag Filter) for 1x18 MVA FAP has been installed to control air emissions within 100 mg/Nm<sup>3</sup>.</p>  <p align="center"><b>(figure 9: Waste Heat Recovery Boilers)</b></p>
(iii)	<p>All the waste gases from the DRI plant, blast furnace, coke oven, and F-grade coal shall be utilized to generate power. Gaseous fuels from the blast furnace shall also be used in BF runners, stoves and sinter etc. No coke oven gases shall be discharged into the atmosphere but used in in the WHRB to generate power.</p>	<p align="center"><b><u>Complied</u></b></p> <p>We are yet to install Sinter Plant, Blast Furnace, DRI &amp; Coke Oven as per expansion programme.Out of expansion facilities, so far we have installed 50 MW Power plant and 1x18 MVA FAP.</p>
(iv)	<p>In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided .Dry fog dust suppression system and water sprinkling at coal washery, raw material handling areas and dust collectors at material transfer points, conveyor belts, coal crushers and screening areas and finish product handling etc shall be provided. Further, specific measures like water sprinkling around the coal stockpiles, loading/ unloading points and asphaltting or concreting of the internal roads/ working zones shall be done to control fugitive emissions.</p>	<p align="center"><b><u>Complied</u></b></p> <p>Fugitive emission generation points like various stock house, material transfer and junction points, product hoppers have been provided with appropriate suction device connected to bag filter. 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, truck tippler. We have already installed arm sprinklers for Coal Stock Yard .</p> <p>In addition to above,</p> <ul style="list-style-type: none"> <li>- Regular water Spraying &amp; cleaning is being practiced on the internal roads. All major internal roads of approx. 6.7 KM length have already been blacktopped. (fig. 6: Water Sprinkler)</li> <li>- We have installed arm sprinklers for dust suppression at Coal Yard, Coal Washery area for dust suppression.</li> <li>- We have provided rotating sprinkler system in DRI unit,Iron Ore Crushing unit for dust suppression.</li> </ul>

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	Dust extraction system with bag filters along with dust suppression system shall be provided to proportioning unit, mixing unit, sinter crushing & screening unit to keep the dust in work zone environment within the permissible limit.	<p>- 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. (fig. 7: Water Tanker)</p> <p>- We have already installed rotating sprinklers in FAP unit.</p> <p>- Adequate dust handling system at the hoppers of CFBC (ESP), AFBC ESP, WHRB ESPs &amp; DRI Bag Filters has already been installed &amp; operating satisfactorily. Collected dust/ash in silos is being disposed off to cement plants/abandoned quarry pits.</p> <p>- The solid waste generated is being suitably disposed off within the premises without creating any dust nuisance or environmental contamination.</p> <p>- Material transportation through trucks, tippers etc is being carried out in covered condition to avoid spillages and dust emission.</p> <p>We are yet to install Sinter Plant as per expansion programme. Will be done.</p>
(v)	Data on ambient air quality, stack emissions, and fugitive emissions shall be uploaded on the Company's website and also regularly submitted on-line to the Ministry's Regional Office at Bhubaneswar, Orissa Pollution Control Board (OPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO <sub>2</sub> and NO <sub>x</sub> shall also be displayed prominently outside the premises at the appropriate place for the information of general public.	<b><u>Complied</u></b> Data on ambient air quality monitored for the parameters PM <sub>2.5</sub> , RSPM, SO <sub>2</sub> , NO <sub>x</sub> , CO, Data on Stack air quality monitored for the parameters P.M., SO <sub>2</sub> & NO <sub>x</sub> & data on fugitive emission monitored for the parameter SPM for running plants is being submitted through e-mail & hard copy to MOEF (ERO), OPCB, CPCB and uploaded on the Company's website once in six months. Online data on ambient air quality as well as stack emission is being displayed prominently at main gate for the information of general public. Env. Monitoring Reports attached as <b>Annexure 2</b> .
(vi)	Gaseous emission levels including secondary fugitive emissions from blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 for the sponge plants shall be followed.	We are yet to install Sinter Plant, Blast Furnace, DRI & Coke Oven as per expansion programme.
(vii)	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	<b><u>Complied</u></b> Material transportation through trucks, tippers etc is being carried out in covered condition to avoid spillages and dust emission. Unloading of materials by trucks is being carried out with proper care avoiding dropping of the materials from height. The material is being moistened by sprinkling water while loading/unloading. Regular water spraying and cleaning is being practiced on the internal roads and major internal roads have been black topped/concreted to control fugitive emission.
(viii)	All the standards prescribed for the coke oven plants shall be followed as per the latest	We are yet to install Coke Oven Plant as per expansion programme.



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	guidelines. Proper and full utilization of coke oven gases in power plant using waste heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air.	
(ix)	As proposed, dry coke quenching method shall be adopted in the proposed non-recovery type of the coke oven.	We are yet to install Coke Oven Plant as per expansion programme.
(x)	<p>Total water requirement from River Mahanadi for the proposed expansion shall not exceed 25,512 m<sup>3</sup>/day as per the permission accorded by the State Water Resource Department, Orissa vide letter no. WII-DM-Misc.-5/2003/13857 dated 26<sup>th</sup> December, 2003. Prior permission for the drawl of extra water, if any, shall be obtained from the concerned department. No ground water shall be used.</p> <p>BF-GCP and coal washery water shall be treated in thickener and used in the pig casting machine.</p> <p>Acidic and Alkaline effluent from DM water plant shall be neutralized and reused in the plant through ash pond. Oil traps and skimming devices shall be provided for removal of oil and grease. All the waste water from process shall be treated and recycled and reused for ash slurry making, sprinkling, green belt development. No waste water shall be discharged outside the premises and 'Zero' effluent discharge shall be ensured.</p> <p>Domestic effluent shall be treated in Septic tank followed by soak pit and used for green belt development.</p>	<p align="center"><b><u>Complied</u></b></p> <p>Total water requirement from River Mahanadi for the proposed expansion does not exceed 25,512 m<sup>3</sup>/day as per the permission accorded by the State Water Resource Department, Orissa vide letter no. WII-DM-Misc.-5/2003/13857 dated 26<sup>th</sup> December, 2003. Prior permission for the drawl of extra water, if any, shall be obtained from the concerned department. We are not using any ground water.</p> <p>We are yet to install Blast Furnace &amp; Coal Washery as per expansion programme.</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. Overflow decanted water from ash slurry is collected in waste water sump and recycled. Thus the company achieves near zero discharge by using treated effluent in the process. (Water Balance Diagram &amp; Flow sheet of effluent is enclosed for reference as (<b>Annexure 3</b>).</p> <p align="center"><b><u>Complied</u></b></p> <p>Domestic effluent of Factory premises are discharged to individual soak pits via septic tanks. Now, we have already installed STPs at Rolling Mill, Office Complex, Dispensary, Canteen &amp; Colonies for water conservation. (<b>fig 2: All STPs</b>)</p>
(xi)	The water consumption shall not exceed 16 m <sup>3</sup> /Ton of Steel as per prescribed standard.	The water consumption is estimated to be around 1.91 m <sup>3</sup> /ton of steel.
(xii)	Ground water monitoring around the solid waste disposal site / secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and OPCB.	<b><u>Complied</u></b>
(xiii)	<p>All the char from DRI plant, coal washery rejects and middlings shall be utilized in the CFBC boiler of power plant. No char shall be disposed off anywhere else. CFBC power plant shall be installed before installation of Sponge Iron Plant so that utilization of char in the CFBC boiler is ensured.</p> <p>All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. SMS slag shall also be properly utilized in environment</p>	<p align="center"><b><u>Complied</u></b></p> <p>Coal washery rejects and middlings are being utilized in the boiler of Power plant. However, Char generated from existing DRI plant is being utilized in 50 MW CFBC power plant for power generation to the extent possible. (<b>fig. 3: Solid Waste Yard</b>)</p> <p>We are yet to install Sinter Plant, Blast Furnace, DRI &amp; Coke Oven as per expansion programme.</p>

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	<p>friendly manner. DRI fines, coke breeze, sinter dust, GCP dust, SMS dust, scale, iron ore fines shall be used in sinter plant.</p> <p>All the other solid wastes including broken refractory mass shall be properly disposed off in environment friendly manner.</p> <p>Resin used in demineralization plant shall be disposed off properly in impervious lined pit as per CPCB guidelines. Oily waste shall be provided to authorized recyclers / re-processors.</p>	<p>All the other solid wastes including broken refractory mass are being properly disposed off in environment friendly manner. (Enclosed <b>Annexure 5</b> for Solid Waste Management Report)</p> <p>Resin used in demineralization plant is being disposed off properly in impervious lined pit with cover as per CPCB guidelines. We have already obtained permission from CPCB and OSPCB for captive utilization of spent ion exchange resin for energy recovery in our DRI kiln and utilizing resin accordingly. Oily waste is being sold to OSPCB authorized recyclers / re-processors only.</p>
(xiv)	Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture Silico Manganese (Si-Mn).	Agreed.
(xv)	The slag from the ferro alloy plant after metal recovery shall be used for road making only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines. Metal recovery plant shall be installed to recover metal.	<p align="center"><b><u>Complied</u></b></p> <p>The slag from the ferro alloy plant after metal recovery is being used for road making only after passing through Toxic Chemical Leachability Potential (TCLP) test. Report submitted earlier. Jigging plant has already been installed to recover metals.</p>  <p align="center"><b>(figure 11: Jigging Plant)</b></p>
(xvi)	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid / hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, OPCB and CPCB.	<p align="center"><b><u>Complied</u></b></p> <p>So far, we have only installed 50 MW CFBC Power Plant and 1x18 MVA FAP out of the total proposed facilities under MOEF expansion of Integrated Steel Plant. Accordingly, we are furnishing herewith the Solid waste management details vide <b>Annexure 5</b> &amp; Hazardous waste management is enclosed vide <b>Annexure 6</b>.</p>
(xvii)	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	<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> <p>Rejects of coal washery are being used as fuel in CFBC boiler for generation of steam. Char generated is being utilized in power plant to the extent possible. 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. We have installed organic waste converters at canteen, colony for converting food waste into manure for use in green belt development. FAP slag after metal recovery is being used for road making/land filling.</p>


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		FAP DE dust is being utilised for briquette making. Solid waste management details enclosed vide <b>Annexure 5</b> & Hazardous waste management is enclosed vide <b>Annexure 6</b> .
(xviii)	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 as amendment in 2003. Ash from captive power plant shall be provided to fly ash brick / cement manufacturers.	<b><u>Complied</u></b> We have achieved 100% utilization during 2024-25 in brick manufacturing, cement industry and In-house land filling. Fly ash utilization report attached as <b>Annexure 7</b> .
(xix)	As proposed, green belt shall be developed in 94 ha (33%), out of total 283.4 ha in and around the plant as per the CPCB guidelines in consultation with DFO.	<b><u>Complied</u></b> 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 8</b> .
(xx)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel sector shall be implemented.	<b><u>Complied</u></b> The CREP recommendation compliance already implemented.
(xxi)	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Being Complied.
	<b>General Conditions</b>	
<b>B (i)</b>	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.	Accepted.
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Accepted.
(iii)	The gaseous emissions from various process units shall conform to the load / mass based standards modified by the Ministry on 19 <sup>th</sup> May,1993 and standards prescribed from time to	<b><u>Complied</u></b> We are yet to install Sinter Plant, Blast Furnace, DRI & Coke Oven as per expansion programme. But the gaseous emissions (Particulate Matter) from stack

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	<p>time by the Ministry. Orissa Pollution Control Board (OPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.</p> <p>At no time, the emission level shall go beyond the prescribed standards.</p>	<p>attached to CFBC boiler &amp; FAP is being monitored continuously online. We would like to inform that as per the O.S.P.C.B. consent condition we are maintaining the particulate emission from the above mentioned process unit below 100 mg/Nm<sup>3</sup>.</p> <p>However, Load based standard notified by the ministry for integrated steel plant is not applicable in our case, as we are yet to install Coke Oven plant.</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 OSPCB prescribed standards.</p>
(iv)	<p>At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the OPCB.</p> <p>Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB once in six months.</p>	<p align="center"><b><u>Complied</u></b></p> <p>Four continuous online ambient air quality monitoring stations have already been established since March, 2015 in downward direction as well as where maximum ground level concentration of PM<sub>2.5</sub>, RSPM, SO<sub>2</sub>, NO<sub>x</sub> &amp; CO are anticipated in consultation with the Odisha State Pollution Control Board. <b>(fig. 4: AAQMS Station)</b></p> <p>Data on ambient air quality monitored for the parameters PM<sub>2.5</sub>, RSPM, SO<sub>2</sub>, NO<sub>x</sub>, CO in the above stations, Data on Stack air quality monitored for the parameters P.M., SO<sub>2</sub>, NO<sub>x</sub>, &amp; data on fugitive emission monitored for the parameter SPM for running plants is being submitted once in six months. Monitoring reports are enclosed as <b>Annexure 2</b>.</p>
(v)	<p>Industrial waste water shall 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 from time to time. The treated wastewater shall be utilized for plantation purpose.</p>	<p align="center"><b><u>Complied</u></b></p> <p>Since the Industrial waste water is not being discharged outside and is being utilized inside our plant for dust suppression/slag quenching/slurry making and re-cycled, 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.</p>
(vi)	<p>The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).</p>	<p align="center"><b><u>Complied</u></b></p> <p>The overall noise levels in and around the plant area is being kept well within the prescribed standards (85 dBA) by providing 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. 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 reports 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 reports are enclosed as <b>Annexure 9</b>.</p>
(vii)	<p>Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.</p>	<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>
(viii)	<p>The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.</p>	<p align="center"><b><u>Complied</u></b></p> <p><u>-Implementation of Surface run off water harvesting including reuse at railway siding.</u></p> <p>In consultation with IIT, Kharagpur, we have already</p>

**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**

		<p>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>
(ix)	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report.</p> <p>Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. Suggestions made during the public hearing shall be implemented.</p>	<p align="center"><b><u>Complied</u></b></p> <p>All the Environment protection measures and safeguards recommended in the EIA/EMP report are being complied for the installed facilities under expansion programme.</p> <p>Social infrastructure and peripheral development work report done so far has been attached vide <b>Annexure 10</b>.</p> <p>Further regarding health care- regular health check up of local people of Dhurusia, Mahakalabasta, Ghantikhal &amp; Kakhadi villages are being carried out by our company Doctor &amp; Pharmacists using mobile health van.</p>
(x)	<p>As proposed, Rs 45.00 Crores and Rs 5.00 Crores shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.</p>	<p align="center"><b><u>Complied</u></b></p> <p>Please refer <b>Annexure 11</b> for financial provision of 45 Crore for the implementation of the EMP. We abide that the funds so provided shall not be diverted for any other purpose.</p>
(xi)	<p>The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.</p>	<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/State Pollution Control Board. A six monthly compliance report and the monitored data along with statistical interpretation are being submitted to them regularly.</p>
(xii)	<p>The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>.</p>	<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>



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	This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office at Bhubaneswar.	
(xiii)	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	<b><u>Complied</u></b> Date of Financial Closure: March, 2009. Date of Final approval of the project: May 2009. Date of commencing the land development work: March 2009.
(xiv)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Accepted.
(xv)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Accepted
(xvi)	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred with in a period of 30 days as prescribed under section 11 of the National Environment Appellate Act, 1997.	Accepted.
(xvii)	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, Hazardous Waste (Management and Handling) Rules, 2003 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**

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**Figure 2 (STP Details)**



**Staff Colony**



**Bachelor Colony**



**Canteen**



**Rolling Mill**



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



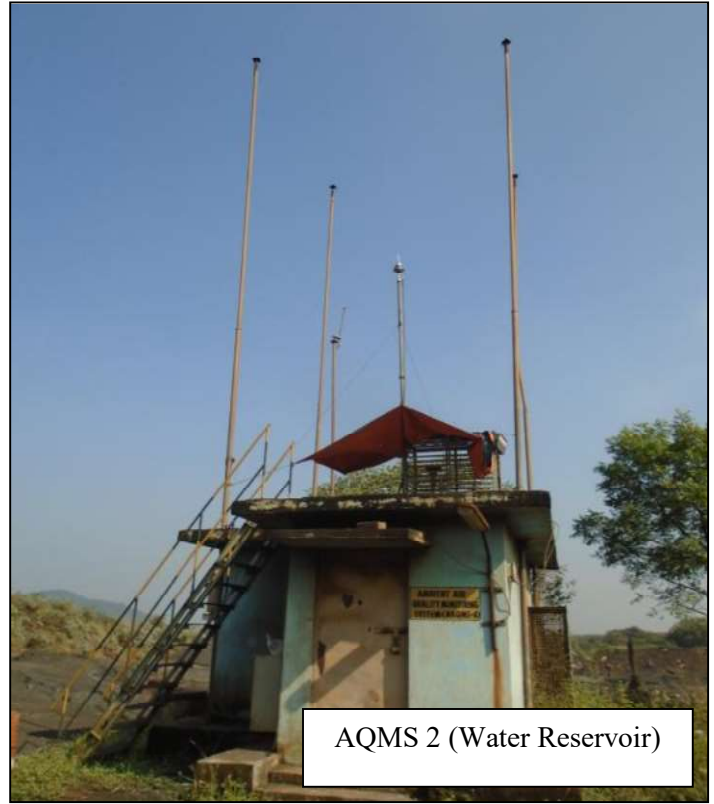


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Figure 4: (AAQMS Station)



AQMS 3 (Guest House)



AQMS 2 (Water Reservoir)



30/09/2024 11:53:34  
20°30'36.162"N 85°43'16.524"E  
269° W  
Cuttack, Central Division 754029  
Altitude:-22.6m

AQMS 1 (Bachelor Colony)



30/09/2024 11:14:58  
20°31'20.718"N 85°43'11.97"E  
17° N

AQMS 4 (Ferro Alloy)

abalishyamapur, Central Division 754029

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**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

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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



# Mitra S. K. Private Limited



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

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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/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. General information about stack:			
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. Physical characteristics of stack :			
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. Analysis/Characteristic of stack:			
1.	Fuel used : NA	2. Fuel Consumption: NA	
D. Results of sampling & analysis of gaseous emission			
	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 % 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 IS 11255(Part-I)
E. Pollution control device			
Details of pollution control devices attached with the stack : Bag Filter			
F. Remarks: Nil			

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory



# Mitra S. K. Private Limited



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## TEST REPORT

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

**Report No. :** BBS/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

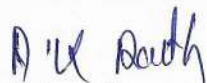
## ANALYSIS RESULT

<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

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F : (0674) 2362918

## TEST REPORT

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

**Report No. :** BBS/309  
**Date :** 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 % 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 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

*[Signature]*  
Authorized Signatory



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


## 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 . <u>General information about stack :</u></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 . <u>Physical characteristics of stack :</u></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 . <u>Analysis/Characteristic of stack:</u></b>				
1.	Fuel used : Coal	2. Fuel Consumption : 25 T/Hr		
<b>D . <u>Results of sampling &amp; analysis of gaseous emission</u></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 . <u>Pollution control device</u></b>				
Details of pollution control devices attached with the stack : ESP				
<b>F . <u>Remarks</u> : 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,  
Jaydev Vihar, 1<sup>st</sup> Floor, IRC Village,  
Bhubaneswar, Khordha, Odisha-751015  
[CIN: U51909WB1956PTC023037]  
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F : (0674) 2362918

## TEST REPORT

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

Report No. : BBS/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. <u>General information about stack :</u>			
1.	Stack connected to	DRI Bag Filter-1	
2.	Emission due to	Coal Burning	
3.	Material of construction of stack	M.S	
4.	Shape of Stack	Circular	
5.	Whether stack is provided with permanent platform & ladder	Yes	
B. <u>Physical characteristics of stack :</u>			
1.	Height of the Stack from Ground level	43 m	
2.	Diameter of the stack at sampling point	1.4 m	
3.	Height of the Sampling Point from Ground level	28 m(approx)	
4.	Area of stack	1.54 m <sup>2</sup>	
C. <u>Analysis/Characteristic of stack:</u>			
1.	Fuel used : Coal	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)	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. <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

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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 % 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 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: *[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/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> 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

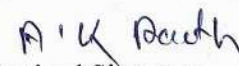
Sl. No	POLLUTANT	RESULT	LIMIT	METHOD OF TEST REFERENCE
1.	Particulate matter (<10µm) in µg/m <sup>3</sup>	74.2	100	IS: 5182 (Part-23)-2006
2.	Particulate matter (<2.5µm) in µg/m <sup>3</sup>	31.0	60	USEPA CFR-40,Part-50, Appendix-L
3.	Sulphur dioxide (SO <sub>2</sub> ) in µg/m <sup>3</sup>	10.8	80	IS: 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

  
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/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

Authorized Signatory



# Mitra S. K. Private Limited

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## TEST REPORT

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

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

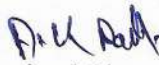
### ANALYSIS RESULT

SL. No.	Test Parameters	Unit	Test Method / Specification	STP Outlet standard as per CTO	Result
1.	pH value at 26°C	---	APHA(23 <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

Prepared By:-



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

  
Authorized Signatory



# Mitra S. K. Private Limited



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## TEST REPORT

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

**Report No. :** BBS/500  
**Date :** 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**

  
Authorized Signatory

# 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

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

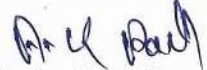
**Report No. :** BBS/502  
**Date :** 13.05.2024  
**Sample No. :** MSKGL/ED/2023-24/04/01167  
**Sample Description :** Effluent Water  
**Sampling Location :** STP Outlet (Bachelor Colony  
Capacity 200 KLD)  
**Date of sampling :** 25.04.2024

### 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

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/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

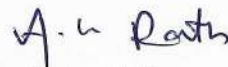
### ANALYSIS RESULT

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

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/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:-



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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[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/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

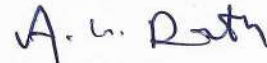
### ANALYSIS RESULT

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 (as TSS)	mg/l	APHA(23 <sup>rd</sup> Edtn.)2540D	<100	21.0
3.	Biochemical Oxygen Demand (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



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/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



# 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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## 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

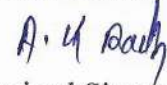
### ANALYSIS RESULT

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,  
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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/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

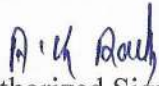
### ANALYSIS RESULT

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



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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F : (0674) 2362918


## 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

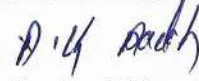
### ANALYSIS RESULT

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

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/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

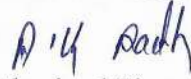
## ANALYSIS RESULT

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



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/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

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


## TEST REPORT

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

Report No. : BBS/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,  
Jaydev Vihar, 1<sup>st</sup> Floor, IRC Village,  
Bhubaneswar, Khordha, Odisha-751015  
[CIN: U51909WB1956PTC023037]  
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F : (0674) 2362918


## TEST REPORT

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

Report No. : BBS/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

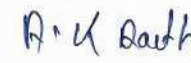
### ANALYSIS RESULT

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

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/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



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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F : (0674) 2362918

## 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]  
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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



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/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

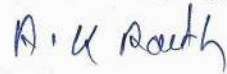
## ANALYSIS RESULT

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



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

## TEST REPORT

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

**Report No. :** BBS/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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## 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,  
Jaydev Vihar, 1<sup>st</sup> Floor, IRC Village,  
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[CIN: U51909WB1956PTC023037]  
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## TEST REPORT

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

**Report No. :** BBS/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

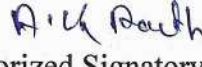
### ANALYSIS RESULT

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

# 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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## 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

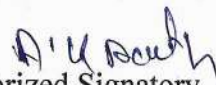
### ANALYSIS RESULT

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



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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

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/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



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 :** 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

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/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



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

## TEST REPORT

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

Report No. : BBS/204  
Date : 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

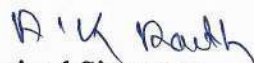
### ANALYSIS RESULT

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

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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## 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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[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/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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F : (0674) 2362918

## 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

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/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

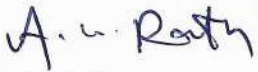
### ANALYSIS RESULT

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



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

## TEST REPORT

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

Report No. : BBS/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,  
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/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

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/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: 



For Mitra S. K. Private Limited

  
Authorized Signatory



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

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/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



**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 Allergarh ... Cuttack

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





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

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F : (0674) 2362918

## TEST REPORT

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

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

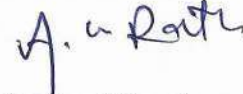
### CHEMICAL ANALYSIS RESULT

Sl. No.	Test Parameters	Requirement (Acceptable Limit)	Permissible limit in the absence of alternate Source	Test Method / Specification	Result
1.	pH value (at 26 <sup>o</sup> C)	6.5-8.5	No Relaxation	IS 3025 (Part 11)-1984	7.72
2.	Turbidity in N.T.U	1	5	IS 3025 (Part 10)-1984	3.2
3.	Iron (as Fe) in mg/l	0.3	No Relaxation	IS 3025 (Part 53)-1988	0.28
4.	Total Dissolved Solids (as TDS) in mg/l	500	2000	IS 3025 (Part16):1984	96.0

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


### CHEMICAL ANALYSIS RESULT

Sl. No.	Test Parameters	Requirement (Acceptable Limit)	Permissible limit in the absence of alternate Source	Test Method / Specification	Result
1.	pH value (at 26 <sup>o</sup> C)	6.5-8.5	No Relaxation	IS 3025 (Part 11)-1984	6.58
2.	Turbidity in N.T.U	1	5	IS 3025 (Part 10)-1984	2.2
3.	Iron (as Fe) in mg/l	0.3	No Relaxation	IS 3025 (Part 53)-1988	0.18
4.	Total Dissolved Solids (as TDS) in mg/l	500	2000	IS 3025 (Part16):1984	22.0

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

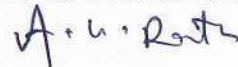
### CHEMICAL ANALYSIS RESULT

Sl. No.	Test Parameters	Requirement (Acceptable Limit)	Permissible limit in the absence of alternate Source	Test Method / Specification	Result
1.	pH value (at 26 <sup>o</sup> C)	6.5-8.5	No Relaxation	IS 3025 (Part 11)-1984	6.76
2.	Turbidity in N.T.U	1	5	IS 3025 (Part 10)-1984	2.8
3.	Iron (as Fe) in mg/l	0.3	No Relaxation	IS 3025 (Part 53)-1988	0.16
4.	Total Dissolved Solids (as TDS) in mg/l	500	2000	IS 3025 (Part16):1984 Reff-2012	88.0

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

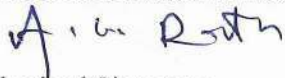
### CHEMICAL ANALYSIS RESULT

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

Report Prepared by: 



For Mitra S. K. Private Limited

  
Authorized Signatory

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## TEST REPORT

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

**Report No. :** BBS/504  
**Date :** 09.02.2024  
**Sample No. :** MSKGL/FD/2023-24/01/01049  
**Sample Description :** Ground Water  
**Sampling Location :** Borewell at  
Subarnamanjaripur  
**Date of Sampling :** 24.01.2024

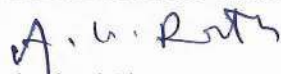
### CHEMICAL ANALYSIS RESULT

Sl. No.	Test Parameters	Requirement (Acceptable Limit)	Permissible limit in the absence of alternate Source	Test Method / Specification	Result
1.	pH value (at 26 <sup>o</sup> C)	6.5-8.5	No Relaxation	IS 3025 (Part 11)-1984	6.66
2.	Turbidity in N.T.U	1	5	IS 3025 (Part 10)-1984	3.8
3.	Iron (as Fe) in mg/l	0.3	No Relaxation	IS 3025 (Part 53)-1988	0.28
4.	Total Dissolved Solids (as TDS) in mg/l	500	2000	IS 3025 (Part16):1984	60.0

Report Prepared by:



For Mitra S. K. Private Limited

  
Authorized Signatory



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

**Solid Waste Management Report for the Year (April 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>	







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

# AARTI STEELS LIMITED

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

## HAZARDOUS WASTE MANAGEMENT

ANNEXURE - VI

## HAZARDOUS MANAGEMENT AT AARTI STEELS LIMITED, GHANTIKHAL

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

**Works** : Ghantikhal, P.O.: Mahakalabasta, Via: Athagarh, Dist.: **Cuttack**–754 029 (Orissa),  
**India. Phone:** +91-671-3061000, **Fax:** +91-671-3061148, 3061149, 3061150  
**Regd. Office/H.O.:** G.T.Road, Miller Ganj, **Ludhiana**–141 003 (Punjab), **India, Phone:** +91-161-  
3006100, **Fax:** +91-161-3006155, **E-mail:** [info@aartisteelsltd.com](mailto:info@aartisteelsltd.com)

## 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

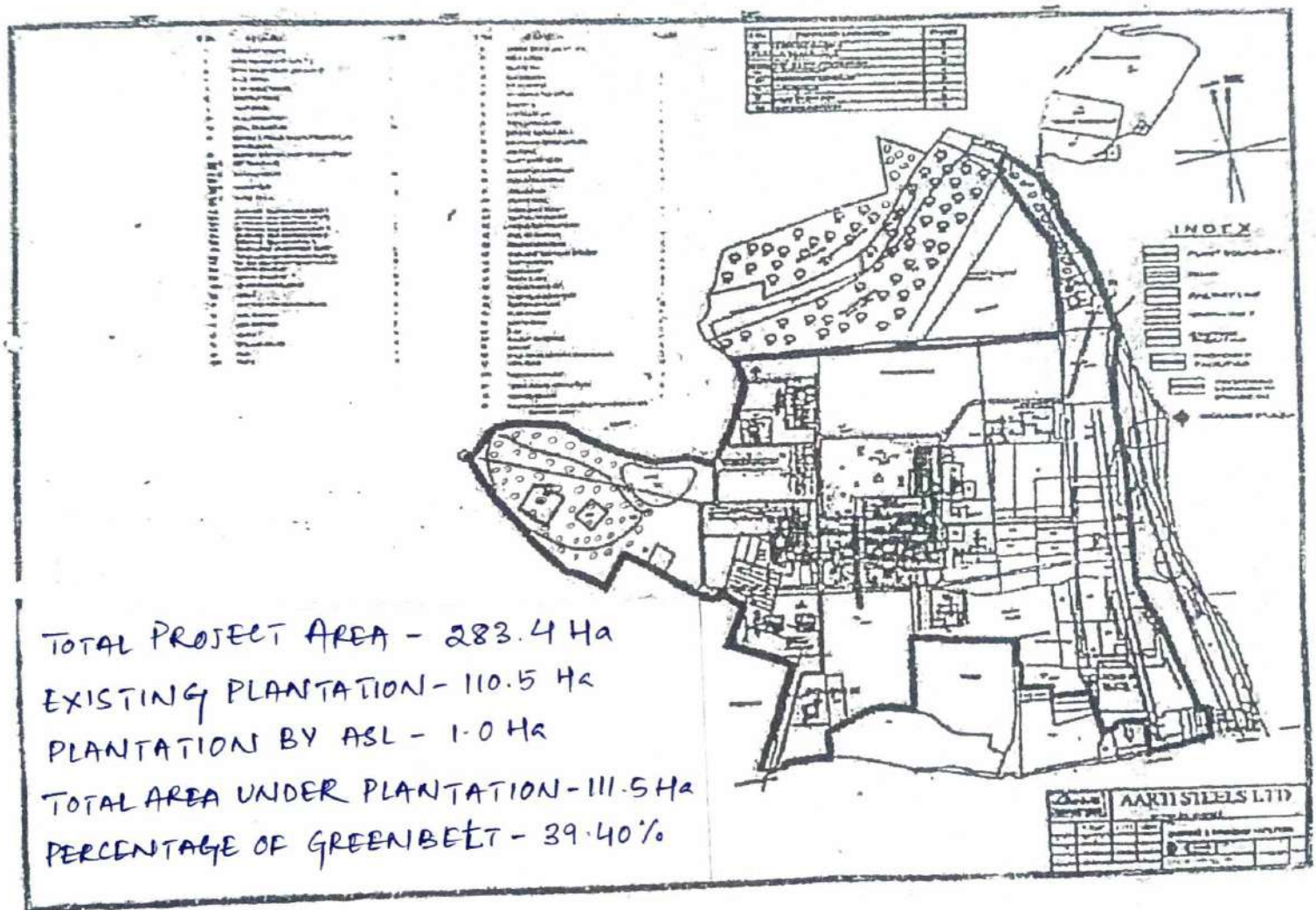
### ASH UTILIZATION IN MT

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	







TOTAL PROJECT AREA - 283.4 Ha  
 EXISTING PLANTATION - 110.5 Ha  
 PLANTATION BY ASL - 1.0 Ha  
 TOTAL AREA UNDER PLANTATION - 111.5 Ha  
 PERCENTAGE OF GREENBELT - 39.40%

Sl. No.	Particulars	Area (Ha)
1	Plantation	111.5
2	Industrial Area	171.9
3	Other	0.1
4	Total	283.4

**INDEX**

- Plantation
- Industrial Area
- Other
- Green Belt
- Water Body
- Highway
- Road
- Boundary
- North-South

AARTI STEELS LTD.	
Project No.	
Scale	
Drawn by	
Checked by	
Date	



# 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/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 Straighting 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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[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/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> Day Time : 06.00 Hr.-22.00 Hr. Night Time:22.00 Hr.-06.00 Hr.
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Report Prepared by:

For Mitra S. K. Private Limited



Authorized Signatory



# Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,  
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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/505  
Date : 28.06.2024  
Sample No. : MSKGL/ED/2024-25/05/00450  
Sample Description : Ambient Noise

### ANALYSIS RESULT

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

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

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory

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/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

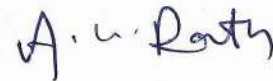
**OSHA'S Permissible Noise Exposure Limits**

<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 : Day Time : 06.00 Hr.-22.00 Hr. Night Time:22.00 Hr.-06.00 Hr.
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Report Prepared by: 



For Mitra S. K. Private Limited

  
Authorized Signatory

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

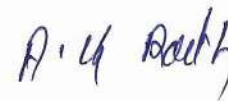
Date: 16.07.2024

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 : Day Time : 06.00 Hr.-22.00 Hr. Night Time:22.00 Hr.-06.00 Hr.
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Report Prepared by: 



For Mitra S. K. Private Limited

  
Authorized Signatory



# Mitra S. K. Private Limited



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

## TEST REPORT

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

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

## ANALYSIS RESULT

Sl. No	Sampling Date	Sampling Location	Results in dB(A)	
			Day Time	Night Time
1.	08.08.2024	Central Store		
2.	08.08.2024	Switch Yard	50.5	40.4
3.	08.08.2024	Workers Colony	69.6	47.2
4.	08.08.2024	Railway Siding	56.8	38.1
5.	08.08.2024	Weigh Bridge	66.4	51.8
6.	08.08.2024	Guest House	72.9	42.5
7.	08.08.2024	Main Gate	51.0	36.8
8.	08.08.2024	Staff Colony	74.6	41.6
9.	08.08.2024	Admin. Building	51.8	37.3
10.	08.08.2024	Safety Excellence Centre	63.8	40.4
11.	08.08.2024	Traffic point near Coal Washery	62.9	45.2
12.	08.08.2024	Dispensary	53.2	38.9
13.	08.08.2024	Canteen	45.1	37.9
			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,  
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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/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 : Day Time : 06.00 Hr.-22.00 Hr. Night Time:22.00 Hr.-06.00 Hr.
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory



**CONSOLIDATED PERIPHERAL EXPENDITURES IN**  
**DIFFERENT HEADS up to 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, 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>







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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

