



# AARTI STEELS LIMITED

An ISO 9001:2015, ISO14001:2015,  
ISO 45001:2018 and  
IATF 16949:2016 Certified Company

**City Office** : Plot No. 7GH-1160P; Besides High Court Officers Colony  
sector - 9, CDA, **Cuttack** - 753014, (Odisha) India  
**Phone** : +91 - 671-7161000, Mob. No.:9437083586  
**Fax** : +91 - 671-7161150, 2309407  
**E-mail** : [cuttack@aartisteelsltd.com](mailto:cuttack@aartisteelsltd.com)

Ref:ASL/EC-2009/Env./ 78434

Date: 05/02/2026

To

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

**Sub: Submission of Half-yearly Compliance report 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-2025 to September-2025**.

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

Thanks & Regards,  
For Aarti Steels Ltd,

  
(Factory Manager)

Encl: As above

Copy to:

**The Integrated Regional Officer,**  
Government of India, Ministry of Environment & Forests, Eastern Regional Office,  
A/3, Chandrasekharapur, Bhubaneswar – 751023, Fax: 0674-2302432. E-mail:  
[roez.bsr-mef@nic.in](mailto:roez.bsr-mef@nic.in)

**The Regional Director,**  
The Central Pollution Control Board, Zonal Office, The Southern Conclave,  
Block 502, 5th and 6th Floors, 1582 Rajdanga Main Road, Kolkata, West Bengal  
700107, E-mail: [mkbiswas.epcb@nic.in](mailto:mkbiswas.epcb@nic.in)

**The Regional Officer,**  
Regional Office, State Pollution Control Board, 586, Suryavihar, Link Road,  
Cuttack-753012 (Odisha), E-mail: [rospcb.cuttack@ospboard.org](mailto:rospcb.cuttack@ospboard.org)

-for favour of kind information and doing the needful please

## Works

:Ghantikhal, P.O.: Mahakalabasta, Via : Athagarh, Dist. : Cuttack - 754029 (Odisha) - India  
**Phone** : +91-671-7161000, Fax : +91-671-7161148, 7161150

## Regd. Office/H.O.

:G.T. Road, Miller Ganj, Ludhiana - 141003 (Punjab), India, Ph : +91-161-3006100,  
**Fax** : +91-161-3006150, Email : [info@aartisteelsltd.com](mailto:info@aartisteelsltd.com)

**Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2009) granted in favour of Integrated Steel Plant, Cuttack of Aarti Steels Limited for April'25 to September'25**



**Half-Yearly Compliance Report**

on

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

**Period: April'25 to September'25**

**Submitted by:**

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

**Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2009) granted in favour of Integrated Steel Plant, Cuttack of Aarti Steels Limited for April'25 to September'25**

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Sl. No.	Specific conditions	Compliance Status (April'25 to September'25)
A (i)	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted.	<p>Electrostatic Precipitators (ESPs) and Bag Filters have been installed in all applicable units for effective control of particulate matter emissions and to maintain ambient air quality within the prescribed standards. All pollution control equipment is operated and maintained regularly to ensure optimum performance and continuous compliance.</p> <p>Fugitive emission sources such as stock houses, material transfer points, junction points, and product hoppers have been provided with appropriate suction systems connected to Bag Filters. Dust suppression systems have been installed in raw material handling areas. All belt conveyors and transfer points are provided with enclosures and spray nozzles for dust suppression. Water spraying arrangements are in place at coal yards and truck tiplers.</p> <p>Regular water sprinkling is carried out using <b>3 × 12 KL water tankers</b> during the non-monsoon period along internal roads, coal stack yards, railway siding areas, and other dust-prone locations. Additionally, manual water spraying using hoses is practiced wherever required. All major internal roads (approx. <b>6.7 km</b>) within the plant premises have been blacktopped to minimize dust generation.</p> <div data-bbox="808 1108 1539 1738" style="display: flex; flex-wrap: wrap;">  </div>

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**Water Sprinkling(Tanker) & Dust Suppression (Rain Gun & Wheel Washing System)**



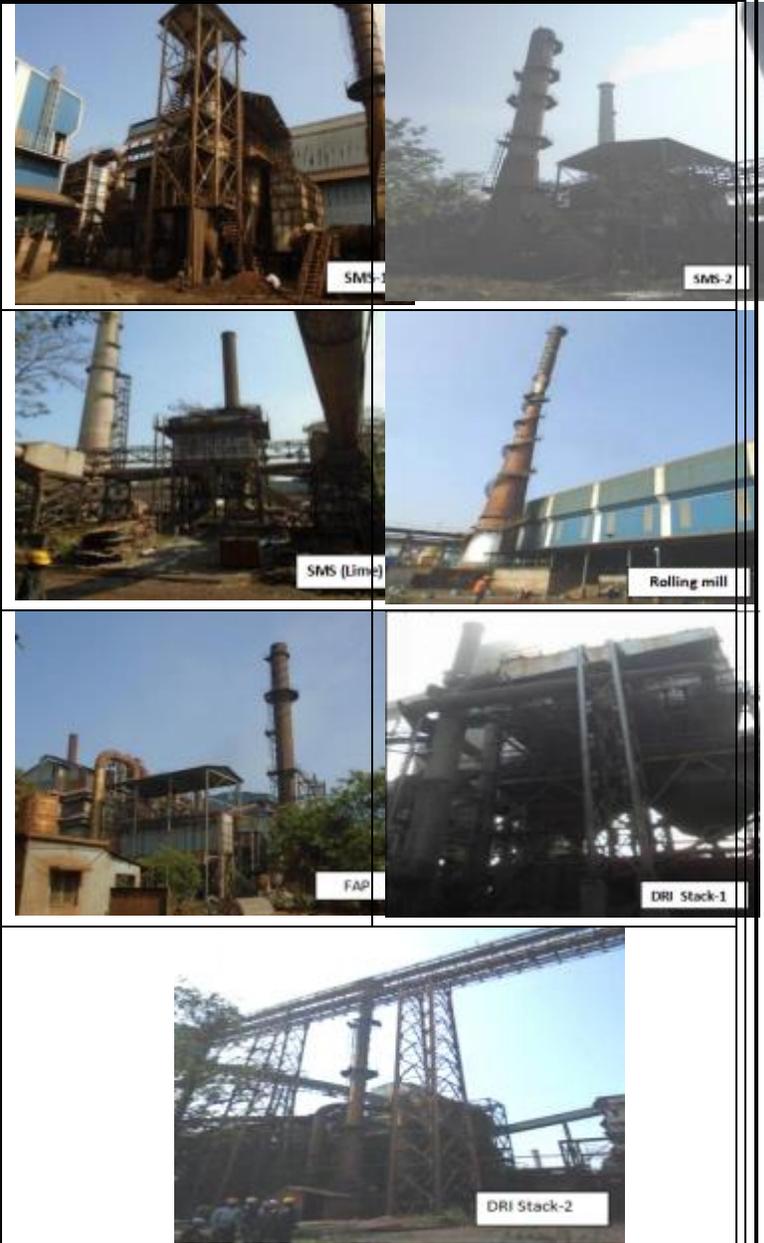
**Covered Trucks (transportation of raw materials)**

*(Figures 1: Photographs of Water Sprinklers, Covered Conveyors, Covered Trucks)*

Adequate dust handling systems have been installed at the hoppers of **CFBC ESP, AFBC ESP, WHRB ESPs, and DRI Bag Filters**, which are operating satisfactorily. The collected dust/ash is stored in silos and disposed of to cement plants and brick manufacturing units in an environmentally safe manner.



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**Figure (Stack, ESP and Bag Filter)**

*(Figures 2: Photographs of Stacks, ESPs and Bag Filters)*

To further improve ambient air quality, **two additional Bag Filters** of capacities **85,000 m<sup>3</sup>/hr** and **33,200 m<sup>3</sup>/hr** have been installed for capacity enhancement of existing Bag Filters of **2 × 500 TPD DRI kilns**, as recommended by **IIT Kharagpur**, to control fugitive emissions. A **Dust Extraction System (DES)** connected to Bag Filters has also been installed in the SMS to control secondary emissions during charging operations. Both systems are functioning satisfactorily.

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On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks.



*(Figures3: Photographs of Newly Installed DRI Bag Filters and DES)*

For monitoring ambient air quality, **four (04) Continuous Ambient Air Quality Monitoring Stations (CAAQMS)** have been installed at strategic locations namely **Bachelor Colony, Reservoir Area, Guest House, and FAP Area**. These stations continuously monitor **PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, and CO**, and transmit real-time data to **CPCB and SPCB servers** as per statutory requirements. Monitoring is also carried out through a **NABL-accredited laboratory**.



**Figure : (AAQMS Station)**

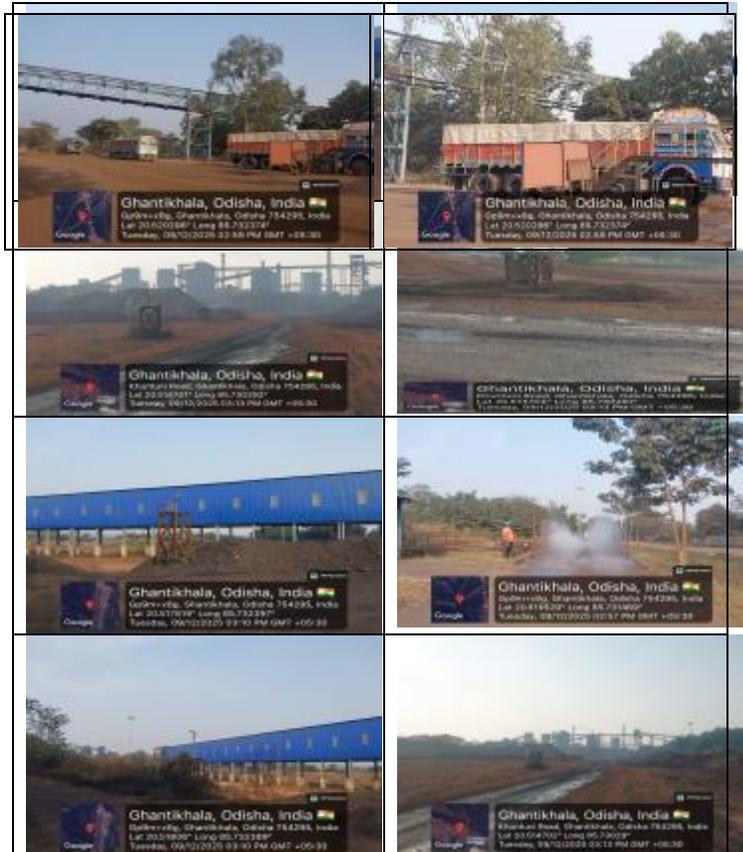
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	<p>Sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm<sup>3</sup> .</p>	<p align="center"><i>(Figure 4: Photographs of AAQMS Stations)</i></p> <p>Online Continuous Stack Emission Monitoring Systems have been installed for all ESP and GCP stacks as per OSPCB guidelines. Real-time data for AAQ and stacks is transmitted through <b>RT-DAS</b> to CPCB and OSPCB servers via authorized agencies. <i>(Annexure 1)</i></p> <p>Out of the 13 identified stacks, <b>11 stacks</b> have already been equipped with Continuous Emission Monitoring Systems (CEMS).</p> <p>To achieve full compliance for all 13 stacks:</p> <ul style="list-style-type: none"> <li>• Procurement of the remaining <b>two CEMS analyzers</b> has been completed.</li> <li>• The equipment has been received at the central store and is currently under technical inspection.</li> <li>• Installation and commissioning will begin immediately after inspection clearance.</li> <li>• Both analyzers will be fully operational within the stipulated regulatory time frame.</li> </ul> <p>A copy of the <b>Purchase Order (PO)</b> for the new analyzers is enclosed as <i>Annexure 2</i> for verification.</p> <p>Online monitoring data indicates that <b>particulate matter concentrations consistently remain below 100 mg/Nm<sup>3</sup> (For AFBC &amp; CFBC - below 50 mg/Nm<sup>3</sup> PM)</b>, conforming to the prescribed emission standards.</p> <p><b>Operational Safety, Power Failure Management, and Emission Control</b></p> <p>The unit adheres strictly to all operational safety mechanisms and emergency protocols to ensure uninterrupted functioning of pollution control devices (PCDs), even during abnormal conditions such as power failures or voltage fluctuations.</p> <p>Although certain older units do not have automatic interlocking systems, a robust and validated <b>Standard Operating Procedure (SOP)</b> has been implemented to ensure that emissions remain within permissible limits during power interruptions or emergency restarts.</p> <p><b>Precautionary Measures Followed During Power Failure</b></p> <p>To avoid any sudden increase in emissions during power failure, the following sequence of actions is mandatory implemented:</p> <ol style="list-style-type: none"> <li>1. Standby DG power supply is activated immediately to keep the kiln rotating through the auxiliary or main drive.</li> <li>2. System pressure is restored to positive mode at the earliest to maintain controlled airflow.</li> <li>3. Priority is given to restarting the coal injection system to stabilize the combustion process.</li> <li>4. Feed belt and material feeding are resumed only after</li> </ol>
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temperature and pressure parameters stabilize.

Remaining drives are started sequentially as per the interlock-equivalent SOP steps to ensure safe and controlled operation. In the event of failure of any pollution control system, the affected unit is shut down and the system is rectified to achieve the desired efficiency before restarting. Although interlocking for automatic plant tripping during emission exceedance is technically feasible, it may lead to prolonged and severe emissions during emergency cooling of kilns, boilers, and furnaces. Therefore, the unit undertakes to restore pollution control devices at the earliest to bring emissions below prescribed limits within the shortest possible time. All solid wastes are handled and disposed of within the premises in an environmentally safe manner without causing dust nuisance. Material transportation through trucks and tippers is carried out in covered condition to prevent spillage and fugitive dust emissions.



**Water Sprinkling(Tanker) & Dust Suppression (Rain Gun & Wheel Washing System)**

Interlocking facilities shall be provided so that process can be automatically stopped in case

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	<p>emission level exceeds the limit.</p>	<p align="center"><b>Covered Trucks (transportation of raw materials)</b>  <i>(Figure 1: Photographs of Covered Trucks and Water Tankers)</i></p> <p><b>Advanced alarm-based emission safeguard system</b> has been installed for AFBC, CFBC and WHRB I &amp; II units to ensure that stack emissions remain strictly within the permissible limits at all times.</p> <ul style="list-style-type: none"> <li>For <b>AFBC/CFBC Boilers</b>, the alarm activation threshold is set at <b>48 mg/Nm<sup>3</sup></b> (standard limit: 50 mg/Nm<sup>3</sup>).</li> <li>For <b>WHRB Units</b>, the alarm activation threshold is set at <b>98 mg/Nm<sup>3</sup></b> (standard limit: 100 mg/Nm<sup>3</sup>).</li> </ul> <p>This system provides <b>real-time early warning</b> during any abnormal or emergency situations such as:</p> <ul style="list-style-type: none"> <li>Sudden power interruptions,</li> <li>Bag filter malfunction,</li> <li>Draft instability,</li> </ul> <p>Operational disturbances during start-up or shutdown. When the emission exceeds the alarming range for a certain period of time, following action plan for reduction of continuous emission by process shift in charge.</p> <p><b><u>Action plan to reduce emission after alarming range:</u></b></p> <ul style="list-style-type: none"> <li>First check the ESP hopper level healthiness.</li> <li>If hopper level was healthy, then follow the below points. <ul style="list-style-type: none"> <li>A. If ash hopper temp. &gt; 75 deg. C, then the ash flow was continuous.</li> <li>B. If ash hopper temp. &lt; 60 deg. C, then to run the wet ash slurry system to fast evacuate of hopper.</li> </ul> </li> <li>Also to check hopper vibrator, whether it was running or not.</li> <li>Reduce the draft if possible as per process convenience.</li> <li>If possible, reduced the load around 5-6 MW.</li> <li>If emission still persists, run manual rapping system by checking KV/MA setting of ESP transformer.</li> </ul> <p>If possible, change rapping frequency by consultation of third party.</p> <p><b><i>Supporting Documents:</i></b>  <i>Annexure 1: AAQ Monitoring Report</i>  <i>Annexure 2: Purchase Order (PO) for the new analyzer</i>  <i>Annexure 3: Interlocking System</i></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 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</p>	<p align="center"><b><u>Complied</u></b></p> <p>We are yet to install Sinter Plant, Blast Furnace and Coke Oven as per expansion programme. Out of expansion facilities, so far we have installed 50 MW CFBC Power plant and 1x18 MVA FAP.</p>

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	<p>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 align="center"><i>(figure 5: Waste Heat Recovery Boilers)</i></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 and 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>(iii)</p>	<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 the Sinter Plant, Blast Furnace, and Coke Oven under the ongoing expansion programme. Out of the planned expansion facilities, we have so far installed a <b>50 MW CFBC Power Plant</b> and <b>1 × 18 MVA Ferro Alloy Plant (FAP)</b>.</p> <p>All waste gases generated from the existing DRI Plant are being effectively utilized in the <b>Waste Heat Recovery Boiler (WHRB)</b> for power generation, ensuring no discharge of untreated gases into the atmosphere. As and when the Blast Furnace and Coke Oven are commissioned, the waste gases will be fully utilized for power generation and process requirements (BF runners, stoves, sinter plant, etc.) in line with the stipulated conditions.</p>
<p>(iv)</p>	<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>Adequate dust suppression and fugitive emission control measures have been implemented and are being effectively operated across the entire plant premises in compliance with the stipulated Environmental Clearance (EC) conditions. The details of compliance are as follows:</p> <p><b>1. Dust Suppression in Raw Material Handling Areas</b></p> <ul style="list-style-type: none"> <li>• A dry fog-type dust suppression system has been installed and is fully operational at the coal crusher hoppers.</li> <li>• All conveyor belts are completely covered to prevent dust escape during material movement.</li> <li>• Spray nozzles have been provided at all conveyor transfer points to ensure effective suppression of fugitive dust emissions.</li> <li>• During inspection, the jigging plant was observed to</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 and screening unit to keep the dust in work zone environment within the permissible limit.

be operational, and dust control measures were found to be functioning satisfactorily.

**2. Control of Fugitive Emissions at Process and Handling Points**

- All fugitive emission generation points such as stock houses, material transfer points, junction points, and product hoppers have been provided with appropriate suction systems connected to Bag Filters.
- Dust handling systems have been installed at the hoppers of CFBC ESP, AFBC ESP, WHRB ESPs, and DRI Bag Filters, which are operating satisfactorily.
- The collected dust/ash is stored in silos and disposed of to cement plants and abandoned quarry pits in an environmentally safe manner.

**3. Internal Road Dust Control**

- Most of the internal roads (approximately 6.7 km) within the plant premises have been black-topped.
- Regular water sprinkling is carried out using dedicated water tankers to control dust generated due to vehicular movement.
- Fugitive emission monitoring is conducted at regular intervals, and the monitored values consistently remain within prescribed regulatory norms.



Way to SMS



Rolling Mill



Way to FAP



Way to Admin Building

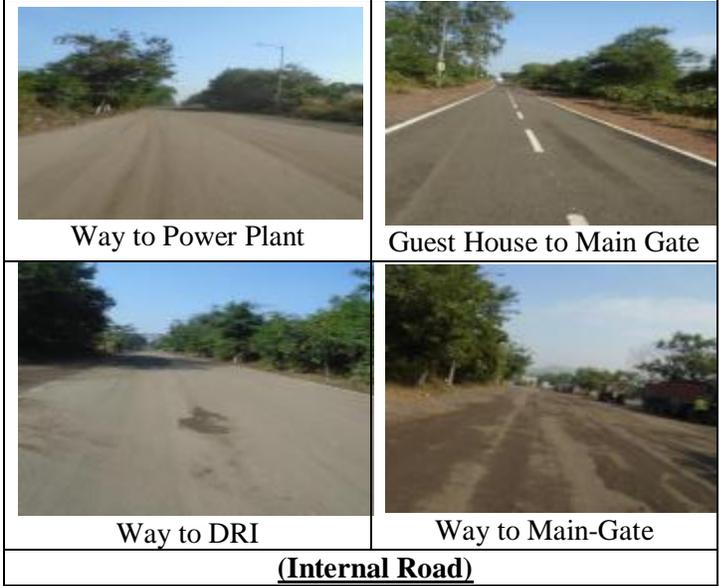


Way to CHP



Way to Guest House

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**Water Sprinkling(Tanker) & Dust Suppression (Rain Gun & Wheel Washing System)**

*(Figure 6: Photographs of Internal Roads & Water Sprinkling System)*

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**4. Dust Control at Railway Siding Area**

- To control dust during unloading and handling of raw materials at the railway siding, three (03) dedicated water tankers of 12 KL capacity each have been deployed exclusively for dust suppression activities.
- High-pressure rain guns have been installed in the raw material handling area to ensure continuous and effective dust suppression during unloading operations.



**Water Sprinkling(Tanker) & Dust Suppression (Rain Gun & Wheel Washing System)**

*(Figure 7: Photographs of Water Tankers & High-Pressure Rain Guns)*

**5. Wagon Tippler & Dust Extraction System (DES)**

- Construction work of the wagon tippler is presently in progress.
- Simultaneously, installation of a Dust Extraction System (DES) with Baghouse is underway to ensure effective control of emissions during wagon unloading.
- Photographs of ongoing DES (Baghouse) installation work are enclosed.
- Purchase Order (PO) for the DES system is enclosed for

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verification.



**Wagon Tippler Construction Progress**



**Ongoing Baghouse installation-Wagon Tippler**

*(Figure 8: Ongoing Baghouse installation - Wagon Tippler)*

**6. Additional Dust Control Measures**

- All material transportation through trucks and tippers is carried out in covered condition to prevent spillage and fugitive dust emissions.
- Arm sprinklers have been installed at the Coal Yard and Iron Yard areas.
- Sprinkler systems have been provided in the DRI Unit, Iron Ore Crushing Unit, and FAP Unit for effective dust suppression.

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		<ul style="list-style-type: none"> <li>• During the non-monsoon period, water spraying using 3 × 12 KL tankers is carried out along internal roads, coal stack yard, railway siding area, and other dust-prone locations.</li> <li>• Manual water spraying using hoses is also practiced wherever required.</li> <li>• Solid waste generated is being handled and disposed of properly within the premises without causing any dust nuisance or environmental contamination.</li> </ul> <p><b>7. Compliance Status of Sinter Plant</b> It is submitted that the Sinter Plant is yet to be installed and shall be taken up as per the approved expansion programme.</p> <p><b>8. Compliance Assurance</b> The unit remains committed to implementing all necessary measures for effective control of fugitive emissions. All dust suppression systems, pollution control equipment, and monitoring mechanisms are operated and maintained regularly to ensure continuous compliance with Environmental Clearance conditions and applicable environmental standards.</p> <p><i>List of Supporting Documents (Enclosed),</i> <i>Annexure 4: Fugitive Emission Monitoring Report</i> <i>Annexure 5: Purchase Order (PO) for Dust Extraction System</i></p>
(v)	<p>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.</p>	<p align="center"><b><u>Complied</u></b></p> <p>Data on ambient air quality monitored for the parameters at 04 corners (AAQMS 1 - Bachelor Colony, AAQMS 2 - Reservoir, AAQMS 3 - Guest House, AAQMS 4 - FAP) 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> and NO<sub>x</sub> and data on fugitive emission monitored for the parameter SPM for running plants is being submitted to MOEF (ERO), OPCB, CPCB and uploaded on the Company's website once in six months .</p> <p>A digital display board has been installed at the main gate of the plant to disseminate real-time environmental parameters to the public. The board continuously displays key indicators such as PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, and stack emission status, thereby ensuring compliance with the public disclosure requirement.</p> <p><i>Environment Monitoring Report attached as Annexure 6</i></p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>CEMS &amp; AAQMS Real-Time Monitoring Display</b></p> </div>

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*(Figure 9: Photographs of the Digital Display Board Installed at the Main Gate)*

(vi) Gaseous emission levels including secondary fugitive emissions from blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 for the sponge plants shall be followed.

The Sinter Plant, Blast Furnace, and Coke Oven units proposed under the expansion programme have **not yet been installed**. Hence, no emission is being generated from these units at present. However, for the existing operational units including Sponge Iron, the emission standards notified by MoEF&CC (May 2008) and CPCB guidelines are being strictly followed. All necessary pollution control devices are installed and are operating effectively to ensure compliance with the prescribed

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		gaseous emission norms.
(vii)	<p>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.</p>	<p align="center"><b><u>Complied</u></b></p> <p>All necessary measures have been implemented to control fugitive dust emissions arising from transportation, railway siding operations, and raw material handling, in compliance with the stipulated Environmental Clearance (EC) conditions.</p> <p><b>1. Covered Transportation of Raw Materials and Products</b></p> <ul style="list-style-type: none"> <li>• Transportation of all raw materials and finished products—both for internal movement within the plant premises and external dispatch—is carried out exclusively through covered trucks and tippers.</li> <li>• This practice is strictly enforced to prevent dust dispersion during transit and material handling activities.</li> <li>• Regular checks are conducted to ensure compliance with covered transportation norms.</li> </ul> <p><b>2. Dust Control at Railway Siding and Raw Material Handling Areas</b></p> <p>To effectively control dust emissions during unloading and handling of raw materials at the railway siding and associated handling zones, the following measures have been implemented:</p> <ul style="list-style-type: none"> <li>• Three (03) dedicated water tankers of 12 KL capacity each have been deployed exclusively for regular and continuous water sprinkling in the railway siding area</li> <li>• Twelve (12) high-pressure rain guns have been installed in the raw material handling zone to provide uniform and effective dust suppression, particularly during peak unloading operations.</li> <li>• These dust suppression systems are operated as per a defined schedule and monitored regularly to ensure effective performance.</li> </ul> <p><b>3. Wagon Tippler Construction &amp; Dust Extraction System (DES)</b></p> <ul style="list-style-type: none"> <li>• Construction of the Wagon Tippler for commercial operation is currently in progress.</li> <li>• Simultaneously, installation of a Dust Extraction System (DES) equipped with a Baghouse is underway to ensure effective control of particulate emissions during wagon unloading operations.</li> <li>• Photographs showing the ongoing construction of the Wagon Tippler and DES (Baghouse) installation</li> <li>• Purchase Order (PO) for the DES system, including details of the Baghouse components and vendor supply confirmation.</li> </ul> <p><b>4. Fugitive Emission Monitoring and Compliance</b></p> <ul style="list-style-type: none"> <li>• Fugitive emission monitoring is carried out at regular intervals at identified locations.</li> <li>• Monitoring results consistently confirm that fugitive emission levels remain within CPCB-prescribed norms.</li> <li>• Monitoring records are maintained and made available</li> </ul>

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		<p>for inspection.</p> <p><b>5. Compliance Assurance</b></p> <p>The plant remains fully committed to strengthening fugitive dust control measures through:</p> <ul style="list-style-type: none"> <li>• Strict enforcement of covered truck transportation</li> <li>• Continuous water sprinkling and rain gun operation.</li> <li>• Timely completion of Wagon Tippler and DES installation.</li> <li>• Regular fugitive emission monitoring and review</li> <li>• All systems are operated and maintained diligently to ensure environmentally safe handling of raw materials and sustained compliance with Environmental Clearance conditions.</li> </ul> <p><i>Supporting Documents:</i>  <i>Annexure 5: Purchase Order (PO) for Dust Extraction System</i>  <i>Figure 7: Photographs of Water Tankers &amp; High-Pressure Rain Guns</i></p>
(viii)	<p>All the standards prescribed for the coke oven plants shall be followed as per the latest guidelines. Proper and full utilization of coke oven gases in power plant using waste heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air.</p>	<p>The proposed Coke Oven Plant under the expansion programme is <b>yet to be installed</b>. Once commissioned, all applicable standards and guidelines issued by CPCB/MoEF&amp;CC— including full utilization of Coke Oven Gas (COG) through Waste Heat Recovery-based Power Generation and prevention of any direct discharge of flue gases—will be strictly complied with.</p>
(ix)	<p>As proposed, dry coke quenching method shall be adopted in the proposed non-recovery type of the coke oven.</p>	<p>The Sinter Plant, Blast Furnace, and Coke Oven units proposed under the expansion programme have <b>not yet been installed</b>. Hence, gaseous emission norms applicable to these units are <b>not presently applicable</b>. The existing units comply with applicable emission standards, and the prescribed norms will be strictly followed during installation and commissioning of the proposed facilities.</p>
(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</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.</p> <p>We are not using ground water.</p> <p>We are yet to install Blast Furnace as per expansion programme.</p> <p>Coal Washery operations ceased in 2013 and the CHP is currently operational. So, no provision of waste water in CHP.</p> <p align="center"><b><u>Complied</u></b></p> <p>We strictly follow ZLD (Zero Liquid Discharge) concept for</p>

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	<p>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>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. Thus the company achieves zero discharge by using treated effluent in the process. (Water Balance of effluent is enclosed for reference as <a href="#">(Annexure 7)</a>).</p> <p align="center"><b><u>Complied</u></b></p> <p>Domestic effluent of Factory premises and colony were treated in STP(s). We have already installed STPs at colonies (Capacity 200 KLD each), rolling mill (10 KLD), canteen (10 KLD). The domestic waste water after treatment in STP are being used for dust suppression/green belt development.</p> <div data-bbox="802 674 1533 1224" data-label="Image"> </div> <p align="center"><i>(Figure 10: All STPs)</i></p>
(xi)	<p>The water consumption shall not exceed 16 m<sup>3</sup>/Ton of Steel as per prescribed standard.</p>	<p align="center"><b><u>Complied</u></b></p> <p>The total water consumption for the plant is approximately 1.91 m<sup>3</sup> per ton of steel, which is well within the prescribed limit of 16 m<sup>3</sup>/ton of steel as per the applicable standards.</p>
(xii)	<p>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.</p>	<p align="center"><b><u>Complied</u></b></p> <p>We have carried out groundwater quality monitoring in accordance with the parameters prescribed in IS 10500:2012 and as required under the Environmental Clearance conditions. Monitoring has been conducted at five representative groundwater locations around the project site. The analysis has been performed for all mandatory physico-chemical, bacteriological, and heavy metal parameters. The results confirm that the groundwater quality in all monitored locations is within the permissible limits specified under IS 10500:2012.</p> <p>We remain committed to conducting groundwater monitoring at the defined frequency and ensuring long-term protection of local water resources.</p> <p><a href="#">Annexure 8: Groundwater monitoring report from NABL</a></p>

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		<p><i>accredited laboratory and</i> <b><i>Annexure 9: Solid Waste Management Report</i></b></p>						
(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 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 align="center"><b><u>Complied</u></b></p> <p>However, Char generated from existing DRI plant is being utilized in 50 MW CFBC power plant for power generation.</p> <table border="1" data-bbox="803 373 1507 982"> <tr> <td data-bbox="803 373 1166 619">  <p align="center"><b>Slag Yard (FAP)</b></p> </td> <td data-bbox="1166 373 1507 619">  <p align="center"><b>Slag Yard (Jigging)</b></p> </td> </tr> <tr> <td data-bbox="803 653 1166 905">  <p align="center"><b>Slag Yard (SMS)</b></p> </td> <td data-bbox="1166 653 1507 905">  <p align="center"><b>Char Yard</b></p> </td> </tr> <tr> <td align="center" colspan="2" data-bbox="803 940 1507 982"> <p><b><u>(Solid Waste Yard)</u></b></p> </td> </tr> </table> <p align="center"><i>(Figure 11: Solid Waste Yard)</i></p> <p>We are yet to install Sinter Plant, Blast Furnace, and Coke Oven as per expansion programme.</p> <p>All the other solid wastes including broken refractory mass are being properly disposed off in environment friendly manner. (Enclosed <b><i>Annexure 9</i></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>	 <p align="center"><b>Slag Yard (FAP)</b></p>	 <p align="center"><b>Slag Yard (Jigging)</b></p>	 <p align="center"><b>Slag Yard (SMS)</b></p>	 <p align="center"><b>Char Yard</b></p>	<p><b><u>(Solid Waste Yard)</u></b></p>	
 <p align="center"><b>Slag Yard (FAP)</b></p>	 <p align="center"><b>Slag Yard (Jigging)</b></p>							
 <p align="center"><b>Slag Yard (SMS)</b></p>	 <p align="center"><b>Char Yard</b></p>							
<p><b><u>(Solid Waste Yard)</u></b></p>								
(xiv)	<p>Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture Silico Manganese (Si-Mn).</p>	<p>Currently, Ferro Chrome (Fe-Cr) production is being carried out in the existing Ferro Alloy Plant (FAP). No Ferro Manganese (Fe-Mn) production is undertaken at present; hence, the condition related to utilization of Fe-Mn slag for Si-Mn manufacturing is <b>not applicable</b> at this stage.</p> <p>The Ferro Chrome slag generated from the operational units is processed through the metal recovery (Jigging) plant. After recovery of metallic content, the non-hazardous processed slag is being <b>safely utilized in road construction and landfilling</b>, in compliance with CPCB/MoEF&amp;CC guidelines.</p>						
(xv)	<p>The slag from the ferro alloy plant after metal recovery shall be used for road making only after</p>	<p>A <b>Metal Recovery Plant (MRP)</b> has been installed and is in regular operation within the plant premises for recovery of</p>						

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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.

metallic content from slag generated from the **Ferro Alloy Plant (FAP)**. In addition, a **jigging plant** has been installed and is functioning effectively to enhance metal recovery efficiency from the slag.



*(figure 12: Metal Recover Plant - Jigging Unit)*

**1. Slag Processing and Utilization**

- After recovery of metallic content, the processed slag is systematically utilized for road construction, land development, and other permissible applications, strictly in accordance with applicable environmental guidelines and CPCB norms.
- Utilization of slag for road making is undertaken only after confirming its environmental safety through TCLP testing.
- Complete records of slag generation, metal recovery, and utilization are maintained.

**2. TCLP Analysis of Processed Slag**

To ensure environmentally safe utilization, the Toxicity Characteristic Leaching Procedure (TCLP) analysis has been carried out for all prescribed heavy metal parameters as per regulatory requirements.

**Findings of TCLP Analysis:**

- The processed slag does not exhibit any hazardous characteristics.
- Leachate concentrations of all tested heavy metals are well within the permissible limits.
- The slag is confirmed to be non-hazardous and suitable for use in road construction, land development, and other approved applications.

**3. Requirement of Secured Landfill**

Based on:

- Non-hazardous classification of slag as per TCLP results, and
- 100% utilization of processed slag after metal recovery,
- no secured landfill facility is required, as there is no hazardous waste generation from slag after processing.

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		<p><b>4. Compliance and Environmental Stewardship</b></p> <ul style="list-style-type: none"> <li>• The Metal Recovery Plant and jigging unit are operated strictly in compliance with Environmental Clearance conditions and applicable CPCB / MoEF&amp;CC guidelines.</li> <li>• Scientific management of solid waste is ensured at all stages to promote resource recovery and waste minimization.</li> <li>• Slag utilization records and test reports are maintained and updated regularly and are available for inspection.</li> </ul> <p><i>List of Supporting Documents</i>  <b>Annexure 11: TCLP Analysis Report of Processed Slag</b>  <b>Figure 12: Photographs of Metal Recovery Plant -Jigging Plant</b></p>
(xvi)	<p>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>	<p align="center"><b><u>Complied</u></b></p> <p>As of now, only the 50 MW CFBC Power Plant and 1x18 MVA Ferro Alloy Plant (FAP) have been installed under the expansion programme approved by MoEF&amp;CC. Accordingly, the Solid Waste Management details for the above-installed units and the Hazardous Waste Management details are enclosed.</p> <p>Proper handling, storage, utilization, and disposal of all solid and hazardous wastes are being ensured as per the applicable statutory requirements.</p> <p>To assess environmental safety, both FAP slag and fly ash have been tested using the Toxicity Characteristic Leaching Procedure (TCLP) for all prescribed heavy metal parameters. The TCLP analysis reports confirm that:</p> <ul style="list-style-type: none"> <li>• FAP slag is non-hazardous, with all parameters within permissible limits.</li> <li>• Fly ash is also non-hazardous, suitable for safe utilization.</li> </ul> <p><i>Supporting Documents:</i>  <b>Annexure 9: Solid Waste Management details</b>  <b>Annexure 10: Hazardous Waste Management detail</b>  <b>Annexure 11: TCLP Analysis Report of Processed Slag</b>  <b>Annexure 12: TCLP Analysis Report of Flyash</b></p>
(xvii)	<p>A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.</p>	<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><b>1. Reduction of Solid Waste at Source</b></p> <ul style="list-style-type: none"> <li>• Char utilization: Char generated from the DRI unit is being fully utilized in the Power Plant as a supplementary fuel.</li> <li>• Ferro Alloy Plant (FAP) Slag: After metal recovery in the Metal Recovery Plant, the processed slag is being used for road construction and land-filling. FAP dust (DE-dust) is being fully utilized for briquette</li> </ul>

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		<p>manufacturing.</p> <p><b>2. Scientific Storage &amp; Management of Hazardous Waste</b></p> <ul style="list-style-type: none"> <li>Used Oil Management: Used oil is being disposed of only to authorized recyclers/re-refiners as per Hazardous Waste Rules. A dedicated secured storage shed with a concrete platform has been constructed for safe storage of used oil.</li> <li>Bio-medical Waste Management: A properly designed bio-medical waste pit has been constructed within the premises for disposal of waste generated from the First Aid Centre.</li> </ul> <p><b>3. Organic Waste Management</b></p> <ul style="list-style-type: none"> <li>Food Waste Utilization: Organic Waste Converters (OWC) have been installed at the canteen and township/colony area for converting food waste into compost. The generated compost is being utilized for greenbelt development.</li> </ul> <p>A detailed summary of solid waste and hazardous waste management practices is enclosed as:  <a href="#">Annexure 9: Solid Waste Management Details</a>  <a href="#">Annexure 10: Hazardous Waste Management Details</a></p>
(xviii )	<p>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.</p>	<p align="center"><b><u>Complied</u></b></p> <p>During <b>April to September 2025</b>, utilization of fly ash has been ensured in compliance with the Fly Ash Notification, 1999 and subsequent amendments.</p> <p>The fly ash generated from the Captive Power Plant has been systematically utilized in the following sectors:</p> <ul style="list-style-type: none"> <li>Brick Manufacturing Units</li> <li>Cement Industries</li> <li>External Road Construction Activities</li> </ul> <p>The ash pond within our premises was originally designated for ash disposal as per the EC-approved EIA/EMP (2009). Out of 283.4 ha of total land, 30 ha was approved for the ash pond. As per the EIA/EMP provisions, disposal of balanced ash into the ash pond was an approved activity at the time of EC issuance.</p> <p>No fly ash has been disposed of without utilization, and the utilization records are maintained month-wise. Supporting documents and utilization summaries are enclosed as <a href="#">Annexure 13</a>.</p>
(xix)	<p>As proposed, green belt shall be developed in 94 ha (33 percent), out of total 283.4 ha in and around the plant as per the CPCB guidelines in consultation with DFO.</p>	<p align="center"><b><u>Complied</u></b></p> <p>We have undertaken a laudable venture to turn this rocky surface to a beautiful landscape full of trees and greenery.</p> <p>We have developed a greenbelt of <b>111.5 hectares</b> within our premises, comprising approximately <b>275,250 trees</b>, achieving <b>39.4%</b> coverage, which exceeds the EC requirement of 33%. The greenbelt has been raised using indigenous and pollution-tolerant species such as Azadirachta indica, Cassia siamea, Delonix regia, Polyalthia longifolia, Terminalia arjuna, Ficus</p>

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benghalensis, and other native varieties suitable for the region.

Plantation activities are planned and implemented to promote ecological restoration, dust suppression, microclimate improvement, and overall environmental enhancement. The discrepancies earlier noted by the Regional Office have been fully reconciled, and our updated records match the field-verified plantation status.

We maintain, irrigate, and monitor the greenbelt regularly through dedicated environmental staff. Annual replantation is undertaken to ensure sustained plantation density and long-term survival.

*Annexure 14: Plantation Details Year-wise*



**Figure: Greenbelt (canopy growth & Plantation)**

*(Photograph 13: Plantation and Green belt Report enclosed as Annexure 14)*

(xx)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel sector shall be implemented.	<b>Complied</b> The CREP recommendation compliance already implemented.
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(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.	<p align="center"><b><u>Complied</u></b></p> <p>Temporary labour accommodation facilities have been provided within the project premises with all required amenities. These include:</p> <ul style="list-style-type: none"> <li>● Safe drinking water supply</li> <li>● Sanitized mobile toilets and handwashing facilities</li> <li>● First-aid and medical care facilities</li> <li>● Crèche facility for children of labourers</li> <li>● Adequate lighting, ventilation, and waste collection system</li> </ul> <p>These facilities are maintained regularly to ensure hygiene and safety.</p> <p>The temporary structures will be removed upon completion of the construction activities as per the stipulated condition.</p>
	<b>General Conditions</b>	<b>Compliance Status (April'25 to September'25)</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.	Consent to Operate has been obtained from the Odisha State Pollution Control Board (OSPCB) vide letter dated 18.03.2023, valid up to 31.03.2028. All stipulations, directions, and conditions prescribed by OSPCB are being strictly complied with. Necessary control measures are implemented promptly as per the Board's guidelines, and compliance records are maintained and submitted regularly to OSPCB.
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	<p><b>Accepted.</b></p> <p>We confirm that no further expansion, modification, or capacity enhancement has been undertaken in the plant without obtaining the prior Environmental Clearance (EC) from the Ministry of Environment, Forest &amp; Climate Change (MoEF&amp;CC).</p>
(iii)	<p>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 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 align="center"><b><u>Complied</u></b></p> <p>The gaseous emissions (Particulate Matter concentration) from the stacks attached to the CFBC Boiler and Ferro Alloy Plant (FAP) are being continuously monitored through the Online Continuous Emission Monitoring System (OCEMS). As per the consent conditions stipulated by the Odisha State Pollution Control Board (OSPCB), we are consistently maintaining the particulate matter (PM) emissions below 100 mg/Nm<sup>3</sup>, well within the prescribed limits.</p> <p>Further, we would like to submit that the load/mass-based emission standards notified by the Ministry of Environment &amp; Forests (MoEF) on 19th May 1993, is not applicable in our case at present, since the Coke Oven Plant which is a key component for determination of load-based standards, is yet to be installed under the expansion programme.</p> <p>We assure that all emissions are being regularly monitored, recorded, and reported as per the guidelines of MoEF&amp;CC and OSPCB.</p> <p>At no time the emission level goes beyond the prescribed standards as the installed pollution control devices i.e. ESPs and Bag Filters are designed to ensure emission level below</p>



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		being operated and maintained to achieve the required quality parameters prior to reuse.
(vi)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	<p align="center"><b><u>Complied</u></b></p> <p>The overall noise levels in and around the plant premises are being maintained well within the prescribed standards by adopting appropriate noise control measures such as acoustic hoods, silencers, and enclosures on applicable noise-generating equipment.</p> <p>Ambient and workplace noise levels are being monitored regularly (once every month), and the results confirm that:</p> <ul style="list-style-type: none"> <li>● <b>Occupational noise levels</b> at source are within the limit of <b>85 dB(A)</b> as per the Factories Act and relevant guidelines.</li> <li>● <b>Ambient noise levels</b> within and around the plant boundary comply with the norms prescribed under the EPA Rules, 1989, i.e., <ul style="list-style-type: none"> <li>- <b>75 dB(A)</b> during day time</li> <li>- <b>70 dB(A)</b> during night time</li> </ul> </li> </ul> <p>Noise Monitoring Reports supporting the above compliance are enclosed as <b><i>Annexure 15.</i></b></p>
(vii)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<p align="center"><b><u>Complied</u></b></p> <p>Occupational Health Surveillance of the workers is being carried out regularly in accordance with the provisions of the Factories Act. Periodic medical examinations, health check-ups, and workplace exposure assessments are conducted once every year. Records of all health surveillance activities are systematically maintained and are available for inspection.</p>
(viii)	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	<p align="center"><b><u>Complied</u></b></p> <p>Implementation of Surface run off water harvesting including reuse at railway siding.</p> <p>Key initiatives undertaken are as follows:</p> <ul style="list-style-type: none"> <li>● <b>Construction of Large Rainwater Harvesting Pond:</b> A surface run-off rainwater harvesting structure of 83 m × 73 m × 5 m has been constructed in consultation with IIT Kharagpur. This pond captures and stores significant volumes of rainwater during monsoon.</li> <li>● <b>Water Reuse &amp; Recycling System:</b> Pumping system, pipelines, and associated infrastructure have been installed to transfer the harvested water to the raw water reservoir. This system has been operational from <b>July 2012</b> and is functioning satisfactorily. Thus, the rainwater harvesting system is fully operational and meets the stipulated requirements of the Environmental Clearance (EC).</li> </ul>

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*(Figure 14: Water Reservoir)*



*(figure 15: Rain Water Harvesting Pit)*

<p>(ix)</p>	<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 environmental protection measures and safeguards recommended in the EIA/EMP Report are being duly complied with for the facilities installed under the expansion programme.</p> <p>The Social Infrastructure and Peripheral Development works undertaken by the company have been documented.</p> <p>Further, under health care initiatives, regular health check-ups are being conducted for the local residents of Dhurusia, Mahakalabasta, Ghantikhal, and Kakhadi villages by the company's Doctor and Pharmacists through a mobile health van.</p> <p><i>Annexure 16: Consolidated Peripheral expenditure in different heads.</i></p>
<p>(x)</p>	<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>The company has allocated <b>Rs. 45.00 Crores</b> towards the capital cost and Rs. 5.00 Crores per annum towards recurring cost for implementation of the Environmental Management Plan (EMP), as committed.</p> <p>The detailed financial provisions for the EMP are enclosed as <i>Annexure 17.</i></p> <p>We hereby confirm that the earmarked funds are being strictly utilized for environmental protection and management measures only, and no diversion of funds has been made or shall be made for any other purpose.</p> <p><i>Annexure 17: Expenditure incurred on environmental</i></p>

**Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2009) granted in favour of Integrated Steel Plant, Cuttack of Aarti Steels Limited for April'25 to September'25**

		<i>protection measures</i>
(xi)	The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	<b><u>Complied</u></b> The stipulated environmental conditions are being regularly monitored by the Regional Office of the Ministry at Bhubaneswar, as well as by the State Pollution Control Board (SPCB) and the Central Pollution Control Board (CPCB). A comprehensive trend analysis and statistical interpretation of key environmental parameters, including Ambient Air Quality (AAQ), Stack Emissions, and Fugitive Dust Monitoring analysis includes parameter-wise trends, mean values, compliance comparison against prescribed standards, and graphical representations for ease of review, Copy of these report from accredited lab enclosed as <i>Annexure 6</i> .
(xii)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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.	<b><u>Complied</u></b> The newspaper advertisement related to the Public Hearing is available in our records and has already been submitted. However, the original advertisement regarding the accord of the Environmental Clearance could not be traced in the existing project files. Once the document is retrieved, we will submit a certified copy to the Regional Office and include it in our next six-monthly compliance report, ensuring full compliance with the EC condition. <i>An Undertaking Confirming that the EC advertisement will be submitted immediately upon retrieval and Assurance of corrective action to close the observation is enclosed as Annexure 18.</i>
(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> The financial closure for the project was achieved in March 2009, followed by financial approval in May 2009. Based on the secured financial position and project planning, land development activities commenced in March 2009, in line with the implementation framework specified in the EC.
(xiv)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Accepted. We acknowledge the condition. All stipulated Environmental Clearance conditions are being implemented in a time-bound manner. The company remains fully committed to ensuring compliance at every stage and will promptly incorporate any additional conditions imposed by the Ministry.
(xv)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Agreed We acknowledge the condition and respectfully submit that we will comply with any additional stipulations prescribed by the Ministry, as and when required. The Company is committed to implementing all such conditions in a time-bound manner to ensure full adherence to environmental norms and regulatory requirements.
(xvi)	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred with in a period	Agreed We acknowledge the provision regarding the appeal process. Any appeal against the Environmental Clearance, if required,

**Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2009) granted in favour of Integrated Steel Plant, Cuttack of Aarti Steels Limited for April'25 to September'25**

	of 30 days as prescribed under section 11 of the National Environment Appellate Act, 1997.	shall be preferred before the National Environment Appellate Authority within the stipulated period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.
(xvii)	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	<p>Agreed</p> <p>We affirm that all the above conditions will be complied with as per the provisions of the following Acts and Rules, along with their subsequent amendments:</p> <ul style="list-style-type: none"> <li>• The Water (Prevention and Control of Pollution) Act, 1974</li> <li>• The Air (Prevention and Control of Pollution) Act, 1981</li> <li>• The Environment (Protection) Act, 1986</li> <li>• Hazardous Waste (Management &amp; Handling) Rules, 2003</li> <li>• Public Liability Insurance (PLI) Act, 1991</li> </ul> <p>We further assure that all statutory requirements under these Acts will be strictly adhered to.</p>

  
**(Factory Manager)**  
**Aarti Steels Limited**

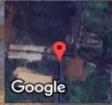


**Six Monthly Compliance Report to the Terms of Conditions of Environmental Clearance (2009)  
granted in favour of Integrated Steel Plant, Cuttack of Aarti Steels Limited for April'25 to  
September'25**

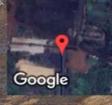
## Covered Trucks (transportation of raw materials)



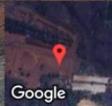
# Water Sprinkling (Tanker) & Dust Suppression (Rain Gun & Wheel Washing System)



**Kakhadi, Odisha, India** 🇮🇳  
Ghantikhali, Kakhadi, Odisha 754295, India  
Lat 20.513959° Long 85.732098°  
Tuesday, 09/12/2025 02:42 PM GMT +05:30



**Kakhadi, Odisha, India** 🇮🇳  
Ghantikhali, Kakhadi, Odisha 754295, India  
Lat 20.513955° Long 85.732099°  
Tuesday, 09/12/2025 02:42 PM GMT +05:30



**Ghantikhala, Odisha, India** 🇮🇳  
Khuntuni Road, Ghantikhala, Odisha 754295, India  
Lat 20.514701° Long 85.730292°  
Tuesday, 09/12/2025 03:13 PM GMT +05:30



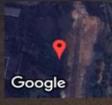
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Tuesday, 09/12/2025 03:13 PM GMT +05:30



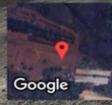
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Gp9m+x8g, Ghantikhala, Odisha 754295, India  
Lat 20.517819° Long 85.732397°  
Tuesday, 09/12/2025 03:10 PM GMT +05:30



**Ghantikhala, Odisha, India** 🇮🇳  
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Tuesday, 09/12/2025 02:57 PM GMT +05:30



**Ghantikhala, Odisha, India** 🇮🇳  
Gp9m+x8g, Ghantikhala, Odisha 754295, India  
Lat 20.51806° Long 85.732389°  
Tuesday, 09/12/2025 03:10 PM GMT +05:30



**Ghantikhala, Odisha, India** 🇮🇳  
Khuntuni Road, Ghantikhala, Odisha 754295, India  
Lat 20.514702° Long 85.73029°  
Tuesday, 09/12/2025 03:13 PM GMT +05:30

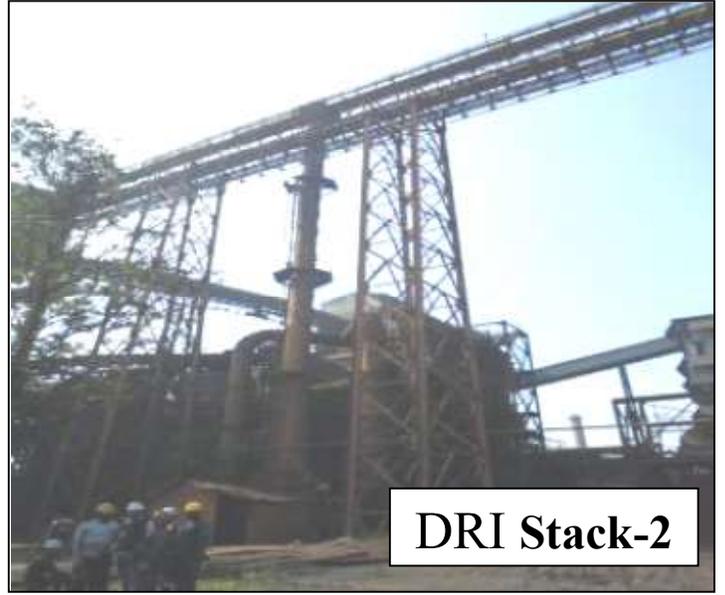


**Figure (Stack, ESP and Bag Filter)**





**DRI Stack-1**



**DRI Stack-2**



**Rolling mill**



**FAP**



**SMS-1**

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



**CHP**



**DRI**



**Power Plant**

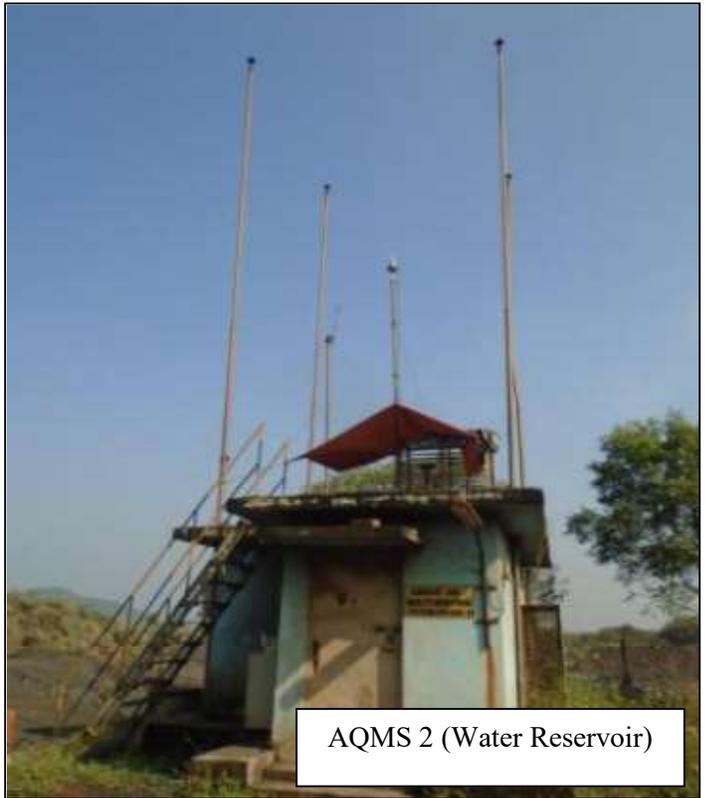


**FAP**

**Figure: (AAQMS Station)**



**AQMS 3 (Guest House)**



**AQMS 2 (Water Reservoir)**



**AQMS 1 (Bachelor Colony)**



**AQMS 4 (Ferro Alloy)**

## INTERNAL ROAD



Way to SMS



Rolling Mill



Way to FAP



Way to Admin Building



Way to CHP



Way to Guest House



Way to Power Plant



Guest House to Main Gate

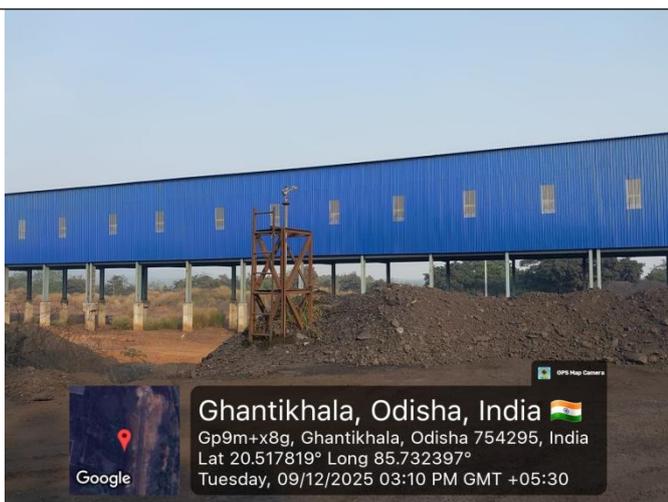


Way to DRI

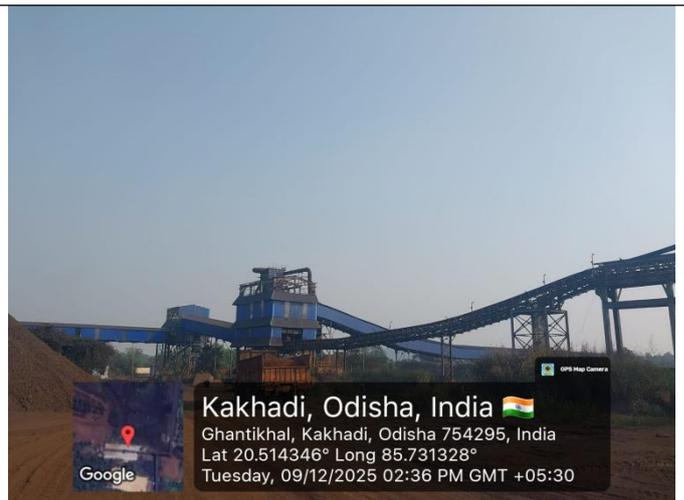


Way to Main-Gate

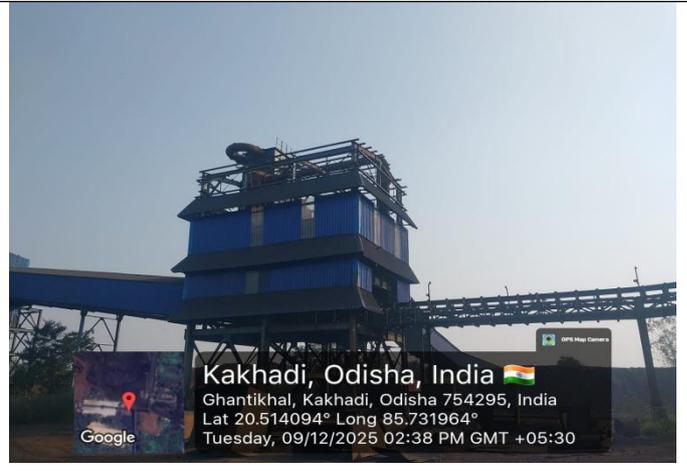
# Water Sprinkling (Tanker) & Dust Suppression (Rain Gun & Wheel Washing System)



# Wagon Tippler Construction Progress

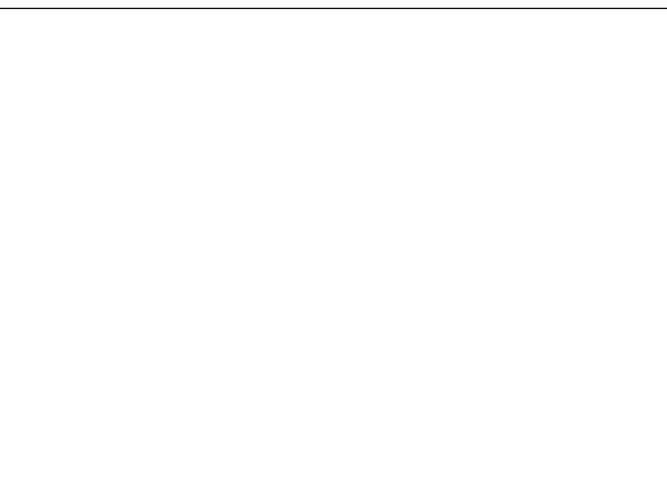


# Dust Extraction System (Baghouse) Construction Progress



# Digital Display Board







# STP, SRTS & Water Treatment Facilities



**04 no. of STP of Capacity (2x200 KLD & 2x10 KLD)**

Location: Staff Colony, Bachelor Colony, Canteen & Rolling Mill

# Slag Yard



## Metal Recovery Plant – Operation Summary (Jigging Unit)



### 1. Introduction

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

### 2. Process Description

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

#### Major steps include:

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

### 3. Operational Performance

#### Key operational parameters generally monitored:

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

### 4. Output & Utilization

- Recovered Metal:** Sent back to the Ferro Alloy Furnace as a raw material substitute.
- Non-Metallic Fraction:** Utilized for road making, landfill preparation or stored in designated slag yards as per SPCB guidelines.

**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/500  
Date : 22.07.2025  
Sample No. : MSKGL/ED/2025-26/06/00462  
Sample Description : Ambient Air Monitoring  
Sampling Location : AAQMS-1 Bachelor Colony  
Date of Sampling : 27.06.2025

**ANALYSIS RESULT**

Sl. No	POLLUTANT	RESULT	LIMIT	METHOD OF TEST REFERENCE
1.	Particulate matter (<10µm) in µg/m <sup>3</sup>	42.72	100	IS: 5182 (Part-23)-2006
2.	Particulate matter (<2.5µm) in µg/m <sup>3</sup>	16.0	60	USEPA CFR-40,Part-50, Appendix-L
3.	Sulphur dioxide (SO <sub>2</sub> ) in µg/m <sup>3</sup>	15.97	80	IS: 5182 (Part-2)-2001
4.	Nitrogen dioxide (NO <sub>2</sub> ) in µg/m <sup>3</sup>	15.6	80	IS: 5182 (Part- 6)-2006
5.	Carbon monoxide (CO) in mg/m <sup>3</sup>	0.49	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>	10.1	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: *S.K. Mohanty*



For Mitra S.K. Private Limited

*A.K. Rath*

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/501  
Date : 22.07.2025  
Sample No. : MSKGL/ED/2025-26/06/00463  
Sample Description : Ambient Air Monitoring  
Sampling Location : AAQMS-2 Water Reservoir  
Date of Sampling : 27.06.2025

## ANALYSIS RESULT

Sl. No	POLLUTANT	RESULT	LIMIT	METHOD OF TEST REFERENCE
1.	Particulate matter (<10µm) in µg/m <sup>3</sup>	32.8	100	IS: 5182 (Part-23)-2006
2.	Particulate matter (<2.5µm) in µg/m <sup>3</sup>	17.74	60	USEPA CFR-40,Part-50, Appendix-L
3.	Sulphur dioxide (SO <sub>2</sub> ) in µg/m <sup>3</sup>	8.98	80	IS: 5182 (Part-2)-2001
4.	Nitrogen dioxide (NO <sub>2</sub> ) in µg/m <sup>3</sup>	19.4	80	IS: 5182 (Part- 6)-2006
5.	Carbon monoxide (CO) in mg/m <sup>3</sup>	0.55	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>	11.6	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: *S.K. Mohanty*



For Mitra S.K. Private Limited

*A.K. Rath*  
Authorized Signatory

# Mitra S. K. Private Limited



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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/300  
Date : 15.05.2025  
Sample No. : MSKGL/ED/2025-26/04/01098  
Sample Description : Ambient Air Monitoring  
Sampling Location : AAQMS-3 Guest House  
Date of Sampling : 23.04.2025

## ANALYSIS RESULT

Sl. No	POLLUTANT	RESULT	LIMIT	METHOD OF TEST REFERENCE
1.	Particulate matter (<10µm) in µg/m <sup>3</sup>	43.69	100	IS: 5182 (Part-23)-2006
2.	Particulate matter (<2.5µm) in µg/m <sup>3</sup>	25.74	60	USEPA CFR-40,Part-50, Appendix-L
3.	Sulphur dioxide (SO <sub>2</sub> ) in µg/m <sup>3</sup>	16.91	80	IS: 5182 (Part-2)-2001
4.	Nitrogen dioxide (NO <sub>2</sub> ) in µg/m <sup>3</sup>	24.8	80	IS: 5182 (Part- 6)-2006
5.	Carbon monoxide (CO) in mg/m <sup>3</sup>	0.62	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>	11.4	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: *S.K. Mohanty*



For Mitra S.K. Private Limited

*Ankur Routh*  
Authorized Signatory

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

# Mitra S. K. Private Limited



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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/301  
Date : 15.05.2025  
Sample No. : MSKGL/ED/2025-26/04/01099  
Sample Description : Ambient Air Monitoring  
Sampling Location : AAQMS-4 Ferro  
Date of Sampling : 23.04.2025

## ANALYSIS RESULT

Sl. No	POLLUTANT	RESULT	LIMIT	METHOD OF TEST REFERENCE
1.	Particulate matter (<10µm) in µg/m <sup>3</sup>	35.39	100	IS: 5182 (Part-23)-2006
2.	Particulate matter (<2.5µm) in µg/m <sup>3</sup>	16.57	60	USEPA CFR-40,Part-50, Appendix-L
3.	Sulphur dioxide (SO <sub>2</sub> ) in µg/m <sup>3</sup>	7.52	80	IS: 5182 (Part-2)-2001
4.	Nitrogen dioxide (NO <sub>2</sub> ) in µg/m <sup>3</sup>	20.35	80	IS: 5182 (Part- 6)-2006
5.	Carbon monoxide (CO) in mg/m <sup>3</sup>	0.66	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>	13.4	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: *S.K. Mohanty*



For Mitra S.K. Private Limited

*A.K. Pathy*  
Authorized Signatory

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



GSTIN NO - 21AABCA4455D1ZC  
OST No - CUII,7107,DT-29-8-03  
CST No - CUCII,1961,DT-29-8-03  
TIN No - 21651300702 DT.29-03-05

TAN No - JLDMO1231G  
PAN No - AABCA4455D

ECC No - AABCA4455DXM002  
ST No - AABCA4455DST008  
IEC No - 1288032056

Range - CHOUDWAR  
Division - CUTTACK-II  
Commissionerate - BHUBANESWAR

**PURCHASE ORDER**

Page No - 1

No - ASL/PO/URG/25/00281

Dated 31-JUL-25

M/s ENVEA INDIA PRIVATE LIMITED (SUP.)  
D/16 3 AND 4, TTC INDUSTRIAL AREA MIDC, TURBHE  
THANE ( Maharashtra ) -27  
Phone - 8779275554  
GSTIN No- 27AACCE0200B1ZO  
E-Mail : s.jena@envea.global

Subject : Supply of SPM ANALYZER

Refr : Offer Ref. No- EIKO/OFF25-0065 DTD 03.07.2025

Dear Sir,

With reference to your above referred offer \ Proforma Invoice & subsiquent negotiations we are pleased to place our purchase order for supply of the items described below :

S.No	Particular	HSN Code	Quantity	Rate/Unit	Amount
1	ENVIRONMENTAL MONITORING-SPM ANALYZER - DYNAMIC OPACITY TYPE, MODEL: DUST MONITOR-602. MAX. TEMP. LIMIT OF 400 DEGC. SPM ANALYZER- RATIOMETRIC OPACITY TECHNOLOGY, MODEL PCME STACK 602 FOR MEASURING DUST IN STACK/DUCT WITH MAXIMUM LIMIT OF TEMERATURE UPTO 250 DEG , CENTIGRADE, RANGE 0-1000 MG/M3, OTHER DETAILS AS PER YOUR OFFER NO EIKO/OFF25-0065(R1) dtd 31.07.2025	90271000	2 NO	Rs 350000	700,000.00
				Total Amount	Rs 7,00,000.00
				IGST	Rs 1,26,000.00
RS EIGHT LAKH TWENTY SIX THOUSAND ONLY				Grand Total	Rs 8,26,000.00

Terms and condition :-

- 1 Price Basis : FOR OUR SITE AT GHANTIKHAL
- 2 Packing and Forwarding : INCLUSIVE WITH ABOVE PRICE
- 3 GST : IGST PAYABLE EXTRA AS MENTIONED ABOVE
- 4 Delivery : MATERIAL SHOULD BE DELIVERED ON OR BEFORE 30.11.2025
- 5 Payment Term : 15 DAYS FROM THE DATE OF RECEIPT OF MATERIAL AT OUR SITE
- 6 Transportation : FREIGHT INCLUSIVE AND TRANSPORTATION TO BE ARRANGE BY YOU
- 7 Make : ENVEA INDIA
- 8 Special Clause : TC AND GC TO TO BRE SUBMITTED ALONG WITH SUPPLY
- 9 Inspection : AT OUR WORKS
- 10 Guarantee / Warranty : 12 MONTHS FROM THE DATE OF COMMISSIONING OR 18 MONTHS FROM THE DATE OF SUPPLY /RECEIPT WHICHEVER IS EARLIER
- 11 Billing Address : AARTI STEELS LIMITED, AT-GHANTIKHAL, PO-MAHAKALABASTA,VIA-ATHAGARH, DIST-CUTTACK-754029 & DOCUMENT COURIER TO AARTI STEELS LTD, PLOT NO-7GH -1160P, NEAR HIGH COURT OFFICER'S COLONY, SECTOR - 9, C.D.A, CUTTACK-753014, ODISHA

**Works** : Ghantikhal, P.O. : Mahakalabasta, Via : Athagarh, Dist. : **Cuttack - 754029 (Odisha) - India**  
**Phone:** +91-671-7161000 **Fax :** +91-671-7161148, 7161150  
**Regd. Office/H.O.** : G. T. Road, Miler Ganj, Ludhiana - 141003 (Punjab), India, Ph : 91-161-3006100,  
**Fax :** 91-161-3006150, **E-mail :** [info@aartisteelsltd.com](mailto:info@aartisteelsltd.com)



# AARTISTEELS LIMITED

Office : Plot No.7GH -1160P, Besides High Court Officers Colony  
Sector-9,CDA,Cuttack - 753014, (Odisha) India

Phone : +91-671 - 7161000 , Mob. No. : 9437083586

Fax : +91-671 - 7161150, 2309407

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

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

## PURCHASE ORDER

Page No - 2

No - ASL/PO/URG/25/00281

Dated 31-JUL-25

M/s ENVEA INDIA PRIVATE LIMITED (SUP.)  
D/16 3 AND 4, TTC INDUSTRIAL AREA MIDC, TURBHE  
THANE ( Maharashtra ) -27  
Phone - 8779275554  
GSTIN No- 27AACCE0200B1ZO  
E-Mail : s.jena@envea.global

- 12 E-Waybill : E-WAYBILL REQUIRED FOR EXCEEDING INVOICE VALUE MORE THAN RS.50000/- TO AVOID PENALTY RS.10000 OR TAX CHARGE ON INVOICE WHICHEVER IS GREATER IS APPLICABLE
- 13 Invoice Terms : TAX INVOICE TO BE SUBMITTED ALONGWITH THE SUPPLY
- 14 GST COMPLAINEE: : OUR INPUT TAX CREDIT CAN NOT BE AVAILED UNLESS YOU MAKE GST PAYMENT & INVOICE UPLOADED IN GST PORTAL.DELAY IN ABOVE ACTIVITIES WILL ATTRACT PENALTY FOR WHICH DEBIT NOTE SHALL BE RAISED.
- 15 SAFETY & ENVIRONMENTAL EXPECTATIONS : Materials supplied by you should meet norms of all applicable environmental laws. Materials to be dispatched only in vehicles having. valid documents -Insurance certificate, Fitness certificate, Pollution under control & RC. Healthiness of vehicle - Horn, Light, Reverse horn, Indicators, Rear view Mirror& Emergency Horn and Fire extinguisher Driver should have proper PPE. The supplier is required to comply with the environment and OHSAS obligations to which M/s ASL has subscribed to meet the IMS requirement.
- 16 L.D. CHARGES : LD IS APPLICABLE DELAY IN DELIVERY OF ORDERED LINE ITEMS @ 0.5% PER WEEK SUBJECT TO MAXIMUM OF 5% OF TOTAL ORDER VALUE WILL BE IMPOSED INCASE YOU FAILED TO SUPPLY THE ORDERED MATERIAL AS PER DELIVERY SCHEDULE MENTIONED IN OUR PURCHASE ORDER.
- 17 Commissioning : COMMISSIONING AT OUR SITE TO BE DONE BY YOU FREE OF COST

### GENERAL TERMS :-

- 1.Time is essence of this order and delivery must be made as per delivery schedules unless otherwise deferred by us in writing .
- 2.In the event, the supplier fails to deliver the goods of the ordered quality or deliver different and / or sub-standard make/quality, the company reserves right to reject the material and inform the supplier to lift the material from our stores at his own cost. Incoming freight, if any , paid for these shall also be recovered. Breakage/loss if any during transit due to poor packing or handling shall be to supplier's account.
3. Please ensure that separate invoices are raised for each Delivery Challan and submitted in DUPLICATE along with delivery of the goods.
- 4.Please mention our Purchase Order No. in all your correspondence and invoices & Delivery Challans for prompt action.
- 5.Please ensure that your CST/OST/TIN/TAN/ECC Nos. are mentioned on your invoices.

### 6.ARBITRATION :

1. If at any point of time any dispute or question arises between the parties touching the meaning, construction or effect of this agreement or of any clause or thing therein contained or regarding the respective liabilities and rights under this agreement then every such dispute or question shall be referred to arbitration, as per the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time, to a Sole Arbitrator to be appointed by M/s. Aarti Steel Limited within one month from the date of notice invoking this arbitration clause and the sole arbitrator so appointed shall enter upon reference within one month from the date of his appointment. Parties further agree the place of arbitration or sitting shall be at Ludhiana.

2. The Courts at Ludhiana shall have exclusive jurisdiction.

- 7.IF APPLICABLE CENVAT COPY OF INVOICE MUST ACCOMPANY the goods failing which this amount will not be paid.

Please return the duplicate copy of this purchase order duly signed and stamped as a token of its acceptance.

Thanking you,

**Works** : Ghantikhal, P.O. : Mahakalabasta, Via : Athagarh, Dist. : **Cuttack - 754029 (Odisha) - India**  
**Phone:** +91-671-7161000 **Fax :** +91-671-7161148, 7161150  
**Regd. Office/H.O.** : G. T. Road, Miler Ganj, **Ludhiana - 141003 (Punjab), India, Ph :** 91-161-3006100,  
**Fax :** 91-161-3006150,**E-mail :** [info@aartisteelsltd.com](mailto:info@aartisteelsltd.com)



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# AARTI STEELS LIMITED

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

## PURCHASE ORDER

Page No - 3

No - ASL/PO/URG/25/00281

Dated 31-JUL-25

M/s ENVEA INDIA PRIVATE LIMITED (SUP.)  
D/16 3 AND 4, TTC INDUSTRIAL AREA MIDC, TURBHE  
THANE ( Maharashtra ) -27  
Phone - 8779275554  
GSTIN No- 27AACCE0200B1ZO  
E-Mail : s.jena@envea.global

Yours faithfully,

**For AARTI STEELS LIMITED**

**P.K.DAS**  
(DY.GENERAL MANAGER)

---

**Works** : Ghantikhal, P.O. : Mahakalabasta, Via : Athagarh, Dist. : **Cuttack** - 754029 (Odisha) - India  
**Phone:** +91-671-7161000 **Fax** : +91-671-7161148, 7161150  
**Regd. Office/H.O.** : G. T. Road, Miler Ganj, **Ludhiana** - 141003 (Punjab), **India**, **Ph** : 91-161-3006100,  
**Fax** : 91-161-3006150, **E-mail** : [info@aartisteelsltd.com](mailto:info@aartisteelsltd.com)

## Annexure 3 - Interlocking System

### Interlocking System

**Advanced alarm-based emission safeguard system** has been installed for AFBC, CFBC and WHRB I & II units to ensure that stack emissions remain strictly within the permissible limits at all times. (Photograph of Alarm system attached as **Annexure I**)

- For **AFBC/CFBC Boilers**, the alarm activation threshold is set at **48 mg/Nm<sup>3</sup>** (standard limit: 50 mg/Nm<sup>3</sup>).
- For **WHRB Units**, the alarm activation threshold is set at **98 mg/Nm<sup>3</sup>** (standard limit: 100 mg/Nm<sup>3</sup>).

This system provides **real-time early warning** during any abnormal or emergency situations such as:

- Sudden power interruptions,
- Bag filter malfunction,
- Draft instability,

Operational disturbances during start-up or shutdown. When the emission exceeds the alarming range for a certain period of time, following action plan for reduction of continuous emission by process shift in charge.

#### Action plan to reduce emission after alarming range:

- First check the ESP hopper level healthiness.
- If hopper level was healthy, then follow the below points.
  - A. If ash hopper temp. > 75 deg. C, then the ash flow was continuous.
  - B. If ash hopper temp. < 60 deg. C, then to run the wet ash slurry system to fast evacuate of hopper.
- Also to check hopper vibrator, whether it was running or not.
- Reduce the draft if possible as per process convenience.
- If possible, reduced the load around 5-6 MW.
- If emission still persists, run manual rapping system by checking KV/MA setting of ESP transformer.
- If possible, change rapping frequency by consultation of third party.

**Annexure I: Photograph of Advanced alarm-based emission safeguard system**



**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/509  
Date : 22.07.2025  
Sample No. : MSKGL/ED/2025-26/06/00255  
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.	DRI Day Bin Area	27.06.2025	1340
2.	Raw Material Feeder Area	27.06.2025	1670
3.	Near Coal Storage Area	28.06.2025	1490
4.	CDA Transfer Point	28.06.2025	1530
5.	DRI Separation Area	28.06.2025	1180

**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: *S.K. Mohanty*



For Mitra S. K. Private Limited

*A.K. Rath*

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/215  
Date : 15.06.2025  
Sample No. : MSKGL/ED/2025-26/05/00255  
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.	Near Iron Ore Crusher	25.05.2025	1280
2.	CDA Oversize Discharge Area	25.05.2025	1410
3.	RMHS Transfer Area	25.05.2025	1590

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: *S.K. Mohanty*



For Mitra S. K. Private Limited

*A.K. Rath.*

Authorized Signatory



**Annexure 5 -  
Purchase Order (PO)  
Wagon Tripler DES**

**AARTISTEELS LIMITED**

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ISO 45001:2018 and  
IATF 16949:2016 Certified Company

GSTIN NO - 21AABCA4455D1ZC  
OST No - CUII,7107,DT-29-8-03  
CST No - CUCII,1961,DT-29-8-03  
TIN No - 21651300702 DT.29-03-05

TAN No - JLDMO1231G  
PAN No - AABCA4455D

ECC No - AABCA4455DXM002  
ST No - AABCA4455DST008  
IEC No - 1288032056

Range - CHOUDWAR  
Division - CUTTACK-II  
Commissionerate - BHUBANESWAR

**PURCHASE ORDER**

Page No - 1

No - ASL/PO/CAPITAL/25/00294

Dated 23-OCT-25

M/s INTELLIGENT AIR FILTERS INDIA PVT LTD  
402, 3rd Floor, Oxford Chambers, 16/7, Rustam Bagh  
Main Road  
BANGALORE ( Karnataka ) -29  
Phone - 9986639000  
GSTIN No- 29AABCI5645R1ZT

E-Mail : [alok@intelligentair.in](mailto:alok@intelligentair.in)

Subject : Supply of Bag filter system for dust extraction for Junction house from House No.-7 to House No-13

Refr : REPEAT ORDER AGAINST PO NO. ASL/PO/CAPITAL/24/00251 Dt.20.12.24

Dear Sir,

With reference to your above referred offer \ Proforma Invoice & subsiquent negotiations we are pleased to place our purchase order for supply of the items described below :

S.No	Particular	HSN Code	Quantity	Rate/Unit	Amount
1	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-7 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1190994	1,190,994.00
2	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-8 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1116832	1,116,832.00
3	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-9 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1112832	1,112,832.00
4	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-10 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1124832	1,124,832.00
5	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-11 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1123832	1,123,832.00
6	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-12 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1740274	1,740,274.00
7	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-13 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER	84213990	1 SET	Rs 1190994	1,190,994.00

**Works** : Ghantikhal, P.O. : Mahakalabasta, Via : Athagarh, Dist. : **Cuttack - 754029 (Odisha) - India**

**Phone:** +91-671-7161000 **Fax :** +91-671-7161148, 7161150

**Regd. Office/H.O.** : G. T. Road, Miler Ganj, Ludhiana - 141003 (Punjab), India, Ph : 91-161-3006100,

**Fax :** 91-161-3006150, **E-mail :** [info@aartisteelsltd.com](mailto:info@aartisteelsltd.com)



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## PURCHASE ORDER

Page No - 2

No - ASL/PO/CAPITAL/25/00294

Dated 23-OCT-25

M/s INTELLIGENT AIR FILTERS INDIA PVT LTD  
402, 3rd Floor, Oxford Chambers, 16/7, Rustam Bagh  
Main Road  
BANGALORE ( Karnataka ) -29  
Phone - 9986639000  
GSTIN No- 29AABCI5645R1ZT  
E-Mail : [alok@intelligentair.in](mailto:alok@intelligentair.in)

SUPPLY		Total Amount	Rs	86,00,590.00
	Freight	LUM	Rs	9,00,000.00
	IGST	18.000 %	Rs	17,10,106.00
RS ONE CRORE TWELVE LAKH TEN THOUSAND SIX HUNDRED NINTY SIX ONLY		Grand Total	Rs	1,12,10,696.00

### Terms and condition :-

- 1 Price Basis : EX WORKS BANGALORE
- 2 Packing and Forwarding : NIL
- 3 GST : EXTRA AS ABOVE
- 4 Delivery : DELIVERY TO BE COMMENCED AFTER 60 DAYS AND BALANCE TO BE COMPLETED WITHIN 03 MONTHS FROM THE DATE OF RECEIPT OF OUR PURCHASE ORDER AND DELIVERY DATE SHALL BE STRICTLY FOLLOWED
- 5 Payment Term : 20% OF BASIC ORDER VALUE AS ADVANCE, 70% WITHIN 20 DAYS AFTER RECEIPT OF MATERIALS AT OUR PLANT SITE AT GHANTIKHAL, BALANCE 10% TO BE KEPT AS RETENTION AND TO BE RELEASED AFTER SUCCESSFUL COMMISSIONING ALONG WITH PERFORMANCE GUARANTEE TEST
- 6 Transportation : EXTRA AS ACTUAL ON TO PAY BASIS IN ASL'S SCOPE
- 7 Make : INTELLIGENT AIR
- 8 Special Clause : PANEL WITH VFD ALONG WITH ALL CONTROL ITEMS SHALL BE INSPECTED AT YOUR WORKS BY ASL TEAM. PANEL & VFD COMMISSIONING IS IN YOUR SCOPE OF SUPPLY WHICH IS INCLUSIVE IN ABOVE PRICE
- 9 Inspection : AT OUR WORKS
- 10 Guarantee / Warranty : 12 MONTHS FROM THE DATE OF COMMISSIONING OR 18 MONTHS FROM THE DATE OF SUPPLY /RECEIPT WHICHEVER IS EARLIER
- 11 Billing Address : AARTI STEELS LIMITED, AT-GHANTIKHAL, PO-MAHAKALABASTA,VIA-ATHAGARH, DIST-CUTTACK-754029 & DOCUMENT COURIER TO AARTI STEELS LTD, PLOT NO-7GH -1160P, NEAR HIGH COURT OFFICER'S COLONY, SECTOR - 9, C.D.A, CUTTACK-753014, ODISHA
- 12 E-Waybill : E-WAYBILL REQUIRED FOR EXCEEDING INVOICE VALUE MORE THAN RS.50000/- TO AVOID PENALTY RS.10000 OR TAX CHARGE ON INVOICE WHICHEVER IS GREATER IS APPLICABLE
- 13 Invoice Terms : TAX INVOICE TO BE SUBMITTED ALONGWITH THE SUPPLY
- 14 Other Terms : APPLICABLE RoHS REQUIREMENT NEED TO BE COMPLIED.
- 15 Special Clause : If the goods do not meet the warranties specified against our PO, the Supplier shall, at its option and at no cost to the Buyer, either: Repair or replace the defective goods within a reasonable time frame; or Refund the purchase price paid by the

**Works** : Ghantikhal, P.O. : Mahakalabasta, Via : Athagarh, Dist. : **Cuttack - 754029 (Odisha) - India**  
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Main Road  
BANGALORE ( Karnataka ) -29  
Phone - 9986639000  
GSTIN No- 29AABCI5645R1ZT  
E-Mail : [alok@intelligentair.in](mailto:alok@intelligentair.in)

- 16 Other Terms : Buyer for the defective goods.  
: (1) MOTOR SHOULD BE CONSIDER IE3+  
  
(2) ALL ELECTRICAL DRAWINGS TO BE APPROVED BEFORE ANY MANUFACTURING  
  
(3) PANEL WITH VFD ALONG WITH ALL CONTROL ITEMS SHALL BE INSPECTED AT YOUR WORKS BY ASL TEAM. PANEL & VFD COMMISSIONING IS IN YOUR SCOPE OF SUPPLY WHICH IS INCLUSIVE IN ABOVE PRICE  
  
(4 ) ALL MCC UNITS SHALL BE STAND-ALONE FOR THE RESPECTIVE DES SYSTEMS FOR JH 7 TO JH 13  
  
(5) VFD DRIVES ARE TO BE PROVIDED FOR ALL ID FAN MOTORS.  
  
(6) ALL MCC DRAWINGS TO BE PROVIDED BY YOU ALONG WITH BOM FOR APPROVAL PRIOR TO MANUFACTURING .  
  
(7 ) MCC UNIT WITH VFD SHALL BE INSPECTED BY ASL TEAM AT BANGALORE PRIOR TO DESPATCH.  
  
(8) ONLY MCC PANEL SUPERVISION OF COMMISSIONING IS IN YOUR SCOPE, WHEREAS COMPLETE FIELD WIRING IS IN ASL'S SCOPE. YOUR ELECTRICAL ENGINEER SHALL BE THERE AT THE TIME OF FINAL COMMISSIONING.
- 17 GST COMPLAINECE: : OUR INPUT TAX CREDIT CAN NOT BE AVAILED UNLESS YOU MAKE GST PAYMENT & INVOICE UPLOADED IN GST PORTAL.DELAY IN ABOVE ACTIVITIES WILL ATTRACT PENALTY FOR WHICH DEBIT NOTE SHALL BE RAISED.
- 18 SAFETY & ENVIRONMENTAL EXPECTATIONS : Materials supplied by you should meet norms of all applicable environmental laws. Materials to be dispatched only in vehicles having. valid documents -Insurance certificate, Fitness certificate, Pollution under control & RC. Healthiness of vehicle - Horn, Light, Reverse horn, Indicators, Rear view Mirror& Emergency Horn and Fire extinguisher Driver should have proper PPE. The supplier is required to comply with the environment and OHSAS obligations to which M/s ASL has subscribed to meet the IMS requirement.
- 19 SUPERVISION : SUPERVISION & ERECTION CHARGES ARE FREE OF COST AND IS IN YOUR SCOPE OF SUPPLY HOWEVER, LODGING, BOARDING & LOCAL CONVEYANCE TO BE PROVIDED BY M/S ASL.

---

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## PURCHASE ORDER

Page No - 4

No - ASL/PO/CAPITAL/25/00294

Dated 23-OCT-25

M/s INTELLIGENT AIR FILTERS INDIA PVT LTD  
402, 3rd Floor, Oxford Chambers, 16/7, Rustam Bagh  
Main Road  
BANGALORE ( Karnataka ) -29  
Phone - 9986639000  
GSTIN No- 29AABC15645R1ZT  
E-Mail : [alok@intelligentair.in](mailto:alok@intelligentair.in)

### GENERAL TERMS :-

1. Time is essence of this order and delivery must be made as per delivery schedules unless otherwise deferred by us in writing .
2. In the event, the supplier fails to deliver the goods of the ordered quality or deliver different and / or sub-standard make/quality, the company reserves right to reject the material and inform the supplier to lift the material from our stores at his own cost. Incoming freight, if any , paid for these shall also be recovered. Breakage/loss if any during transit due to poor packing or handling shall be to supplier's account.
3. Please ensure that separate invoices are raised for each Delivery Challan and submitted in DUPLICATE along with delivery of the goods.
4. Please mention our Purchase Order No. in all your correspondence and invoices & Delivery Challans for prompt action.
5. Please ensure that your CST/OST/TIN/TAN/ECC Nos. are mentioned on your invoices.

### 6. ARBITRATION :

1. If at any point of time any dispute or question arises between the parties touching the meaning, construction or effect of this agreement or of any clause or thing therein contained or regarding the respective liabilities and rights under this agreement then every such dispute or question shall be referred to arbitration, as per the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time, to a Sole Arbitrator to be appointed by M/s. Aarti Steel Limited within one month from the date of notice invoking this arbitration clause and the sole arbitrator so appointed shall enter upon reference within one month from the date of his appointment. Parties further agree the place of arbitration or sitting shall be at Ludhiana.

2. The Courts at Ludhiana shall have exclusive jurisdiction.

7. IF APPLICABLE CENVAT COPY OF INVOICE MUST ACCOMPANY the goods failing which this amount will not be paid.

**Please return the duplicate copy of this purchase order duly signed and stamped as a token of its acceptance.**

Thanking you,

Yours faithfully,

**For AARTI STEELS LIMITED**

**P.K.DAS**

**(DY.GENERAL MANAGER)**

---

**Works** : Ghantikhal, P.O. : Mahakalabasta, Via : Athagarh, Dist. : **Cuttack** - 754029 (Odisha) - India  
**Phone:** +91-671-7161000 **Fax** : +91-671-7161148, 7161150  
**Regd. Office/H.O.** : G. T. Road, Miler Ganj, **Ludhiana** - 141003 (Punjab), **India**, **Ph** : 91-161-3006100,  
**Fax** : 91-161-3006150, **E-mail** : [info@aartisteelsltd.com](mailto:info@aartisteelsltd.com)



# AARTI STEELS LIMITED

**Office :** Plot No.7GH -1160P, Besides High Court Officers Colony  
Sector-9,CDA,Cuttack - 753014, (Odisha) India

**Phone :** +91-671 - 7161000 , Mob. No. : 9437083586

**Fax :** +91-671 - 7161150, 2309407

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

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

GSTIN NO - 21AABCA4455D1ZC  
OST No - CUII,7107,DT-29-8-03  
CST No - CUCI,1961,DT-29-8-03  
TIN No - 21651300702 DT.29-03-05

TAN No - JLDMO1231G  
PAN No - AABCA4455D

ECC No - AABCA4455DXM002  
ST No - AABCA4455DST008  
IEC No - 1288032056

Range - CHOUDWAR  
Division - CUTTACK-II  
Commissionerate - BHUBANESWAR

## PURCHASE ORDER

Page No - 1

No - ASL/PO/CAPITAL/25/00294

Dated 23-OCT-25

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402, 3rd Floor, Oxford Chambers, 16/7, Rustam Bagh  
Main Road  
BANGALORE ( Karnataka ) -29  
Phone - 9986639000  
GSTIN No- 29AABCI5645R1ZT

E-Mail : [alok@intelligentair.in](mailto:alok@intelligentair.in)

Subject : Supply of Bag filter system for dust extraction for Junction house from House No.-7 to House No-13

Refr : REPEAT ORDER AGAINST PO NO. ASL/PO/CAPITAL/24/00251 Dt.20.12.24

Dear Sir,

With reference to your above referred offer \ Proforma Invoice & subsequent negotiations we are pleased to place our purchase order for supply of the items described below :

S.No	Particular	HSN Code	Quantity	Rate/Unit	Amount
1	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-7 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1190994	1,190,994.00
2	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-8 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1116832	1,116,832.00
3	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-9 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1112832	1,112,832.00
4	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-10 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1124832	1,124,832.00
5	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-11 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1123832	1,123,832.00
6	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-12 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER SUPPLY	84213990	1 SET	Rs 1740274	1,740,274.00
7	BAGHOUSE FOR CONVEYOR JUNCTION HOUSE-13 BAGHOUSE WITH ID-FAN & ITS COMPLETE ACCESORIES LIKE BAG CAGES E&I ITEMS OTHER TECHNICAL DETAILS AS PER EARLIER	84213990	1 SET	Rs 1190994	1,190,994.00

**Works :** Ghantikhal, P.O. : Mahakalabasta, Via : Athagarh, Dist. : **Cuttack - 754029 (Odisha) - India**

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**Regd. Office/H.O. :** G. T. Road, Miler Ganj, Ludhiana - 141003 (Punjab), India, Ph : 91-161-3006100,

**Fax :** 91-161-3006150, **E-mail :** [info@aartisteelsltd.com](mailto:info@aartisteelsltd.com)



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# AARTISTEELS LIMITED

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Sector-9,CDA,Cuttack - 753014, (Odisha) India

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## PURCHASE ORDER

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Dated 23-OCT-25

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E-Mail : [alok@intelligentair.in](mailto:alok@intelligentair.in)

SUPPLY		Total Amount	Rs	86,00,590.00
	Freight	LUM	Rs	9,00,000.00
	IGST	18.000 %	Rs	17,10,106.00
RS ONE CRORE TWELVE LAKH TEN THOUSAND SIX HUNDRED NINTY SIX ONLY		Grand Total	Rs	1,12,10,696.00

### Terms and condition :-

- 1 Price Basis : EX WORKS BANGALORE
- 2 Packing and Forwarding : NIL
- 3 GST : EXTRA AS ABOVE
- 4 Delivery : DELIVERY TO BE COMMENCED AFTER 60 DAYS AND BALANCE TO BE COMPLETED WITHIN 03 MONTHS FROM THE DATE OF RECEIPT OF OUR PURCHASE ORDER AND DELIVERY DATE SHALL BE STRICTLY FOLLOWED
- 5 Payment Term : 20% OF BASIC ORDER VALUE AS ADVANCE, 70% WITHIN 20 DAYS AFTER RECEIPT OF MATERIALS AT OUR PLANT SITE AT GHANTIKHAL, BALANCE 10% TO BE KEPT AS RETENTION AND TO BE RELEASED AFTER SUCCESSFUL COMMISSIONING ALONG WITH PERFORMANCE GUARANTEE TEST
- 6 Transportation : EXTRA AS ACTUAL ON TO PAY BASIS IN ASL'S SCOPE
- 7 Make : INTELLIGENT AIR
- 8 Special Clause : PANEL WITH VFD ALONG WITH ALL CONTROL ITEMS SHALL BE INSPECTED AT YOUR WORKS BY ASL TEAM. PANEL & VFD COMMISSIONING IS IN YOUR SCOPE OF SUPPLY WHICH IS INCLUSIVE IN ABOVE PRICE
- 9 Inspection : AT OUR WORKS
- 10 Guarantee / Warranty : 12 MONTHS FROM THE DATE OF COMMISSIONING OR 18 MONTHS FROM THE DATE OF SUPPLY /RECEIPT WHICHEVER IS EARLIER
- 11 Billing Address : AARTI STEELS LIMITED, AT-GHANTIKHAL, PO-MAHAKALABASTA,VIA-ATHAGARH, DIST-CUTTACK-754029 & DOCUMENT COURIER TO AARTI STEELS LTD, PLOT NO-7GH -1160P, NEAR HIGH COURT OFFICER'S COLONY, SECTOR - 9, C.D.A, CUTTACK-753014, ODISHA
- 12 E-Waybill : E-WAYBILL REQUIRED FOR EXCEEDING INVOICE VALUE MORE THAN RS.50000/- TO AVOID PENALTY RS.10000 OR TAX CHARGE ON INVOICE WHICHEVER IS GREATER IS APPLICABLE
- 13 Invoice Terms : TAX INVOICE TO BE SUBMITTED ALONGWITH THE SUPPLY
- 14 Other Terms : APPLICABLE RoHS REQUIREMENT NEED TO BE COMPLIED.
- 15 Special Clause : If the goods do not meet the warranties specified against our PO, the Supplier shall, at its option and at no cost to the Buyer, either: Repair or replace the defective goods within a reasonable time frame; or Refund the purchase price paid by the

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- 16 Other Terms : Buyer for the defective goods.  
: (1) MOTOR SHOULD BE CONSIDER IE3+  
  
(2) ALL ELECTRICAL DRAWINGS TO BE APPROVED BEFORE ANY MANUFACTURING  
  
(3) PANEL WITH VFD ALONG WITH ALL CONTROL ITEMS SHALL BE INSPECTED AT YOUR WORKS BY ASL TEAM. PANEL & VFD COMMISSIONING IS IN YOUR SCOPE OF SUPPLY WHICH IS INCLUSIVE IN ABOVE PRICE  
  
(4 ) ALL MCC UNITS SHALL BE STAND-ALONE FOR THE RESPECTIVE DES SYSTEMS FOR JH 7 TO JH 13  
  
(5) VFD DRIVES ARE TO BE PROVIDED FOR ALL ID FAN MOTORS.  
  
(6) ALL MCC DRAWINGS TO BE PROVIDED BY YOU ALONG WITH BOM FOR APPROVAL PRIOR TO MANUFACTURING .  
  
(7 ) MCC UNIT WITH VFD SHALL BE INSPECTED BY ASL TEAM AT BANGALORE PRIOR TO DESPATCH.  
  
(8) ONLY MCC PANEL SUPERVISION OF COMMISSIONING IS IN YOUR SCOPE, WHEREAS COMPLETE FIELD WIRING IS IN ASL'S SCOPE. YOUR ELECTRICAL ENGINEER SHALL BE THERE AT THE TIME OF FINAL COMMISSIONING.
- 17 GST COMPLAINECE: : OUR INPUT TAX CREDIT CAN NOT BE AVAILED UNLESS YOU MAKE GST PAYMENT & INVOICE UPLADED IN GST PORTAL.DELAY IN ABOVE ACTIVITIES WILL ATTRACT PENALTY FOR WHICH DEBIT NOTE SHALL BE RAISED.
- 18 SAFETY & ENVIRONMENTAL EXPECTATIONS : Materials supplied by you should meet norms of all applicable environmental laws. Materials to be dispatched only in vehicles having. valid documents -Insurance certificate, Fitness certificate, Pollution under control & RC. Healthiness of vehicle - Horn, Light, Reverse horn, Indicators, Rear view Mirror& Emergency Horn and Fire extinguisher Driver should have proper PPE. The supplier is required to comply with the environment and OHSAS obligations to which M/s ASL has subscribed to meet the IMS requirement.
- 19 SUPERVISION : SUPERVISION & ERECTION CHARGES ARE FREE OF COST AND IS IN YOUR SCOPE OF SUPPLY HOWEVER, LODGING, BOARDING & LOCAL CONVEYANCE TO BE PROVIDED BY M/S ASL.

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2. The Courts at Ludhiana shall have exclusive jurisdiction.

7. IF APPLICABLE CENVAT COPY OF INVOICE MUST ACCOMPANY the goods failing which this amount will not be paid.

**Please return the duplicate copy of this purchase order duly signed and stamped as a token of its acceptance.**

Thanking you,

Yours faithfully,

**For AARTI STEELS LIMITED**

**P.K.DAS**  
**(DY.GENERAL MANAGER)**

---

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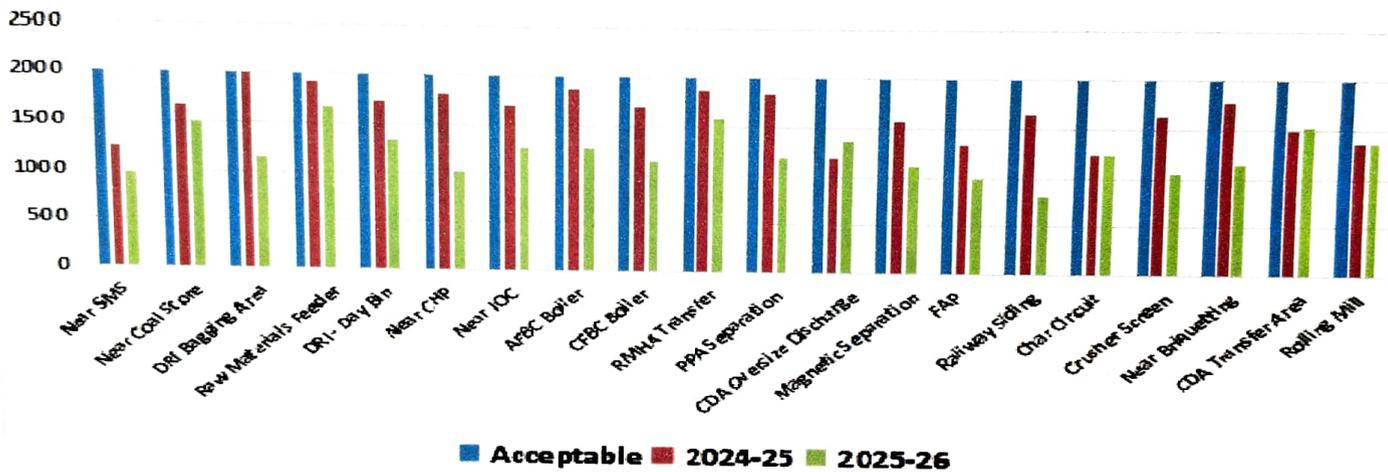
Building No. P-48,  
 Udayan Industrial Estate,3,  
 Pagladanga Road  
 Kolkata 700015.  
 Tel. : 91 7044036120. Fax : 91 33 23230078.  
 Email : [udayanlab@mitrask.com](mailto:udayanlab@mitrask.com)

### TEST REPORT

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

**Report No. :** BBS/600  
**Date :** April - September 2025  
**Description :** Six month Data for EC Compliance  
**Location :** Plant  
**Details :** Fugitive Emission Comparison sheet

### Fugitive Dust Emission (ug/Nm3)



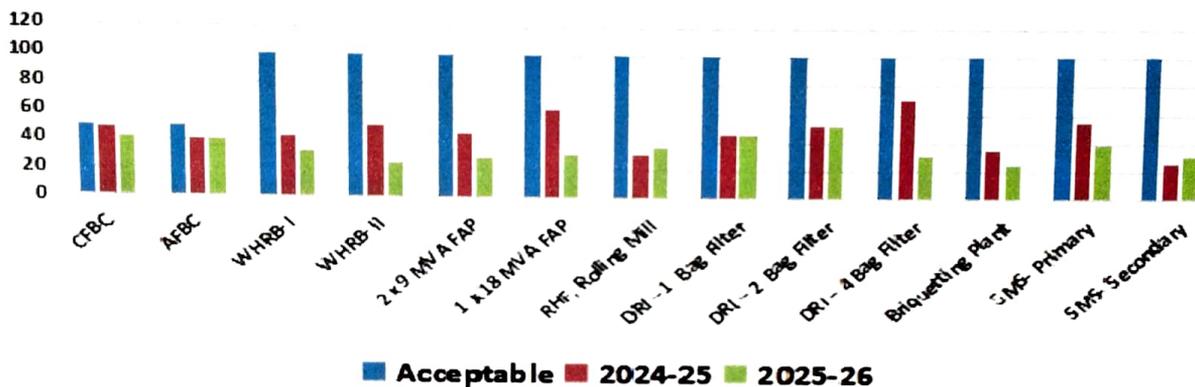
	Acceptable	2024-25	2025-26
Near SMS	2000	1245	960
Near Coal Store	2000	1681	1490
DRI Bagging Area	2000	1990	1160
Raw Materials Feeder	2000	1924	1670
DRI - Day Bin	2000	1720	1340
Near CHP	2000	1810	1020
Near IOC	2000	1700	1280
AFBC Boiler	2000	1874	1280
CFBC Boiler	2000	1690	1160
RMHA Transfer	2000	1872	1590
PPA Separation	2000	1842	1180
CDA Oversize Discharge	2000	1180	1380
Magnetic Separation	2000	1570	1120
FAP	2000	1348	980
Railway Siding	2000	1660	810
Char Circuit	2000	1240	1240
Crusher Screen	2000	1650	1060
Near Briquetting	2000	1780	1160
CDA Transfer Area	2000	1500	1530
Rolling Mill	2000	1380	1380

Building No. P-48,  
 Udayan Industrial Estate,3,  
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**Name & Address of the Customer :**  
**AARTI STEELS LIMITED**  
 Ghantikhal , Athagarh , Cuttack

**Report No. :** BBS/600  
**Date :** April - September 2025  
**Description :** Six month Data for EC Compliance  
**Location :** Plant  
**Details :** Stack Emission Comparison sheet

### PM Concentration in Stack Emission (mg/Nm<sup>3</sup>)

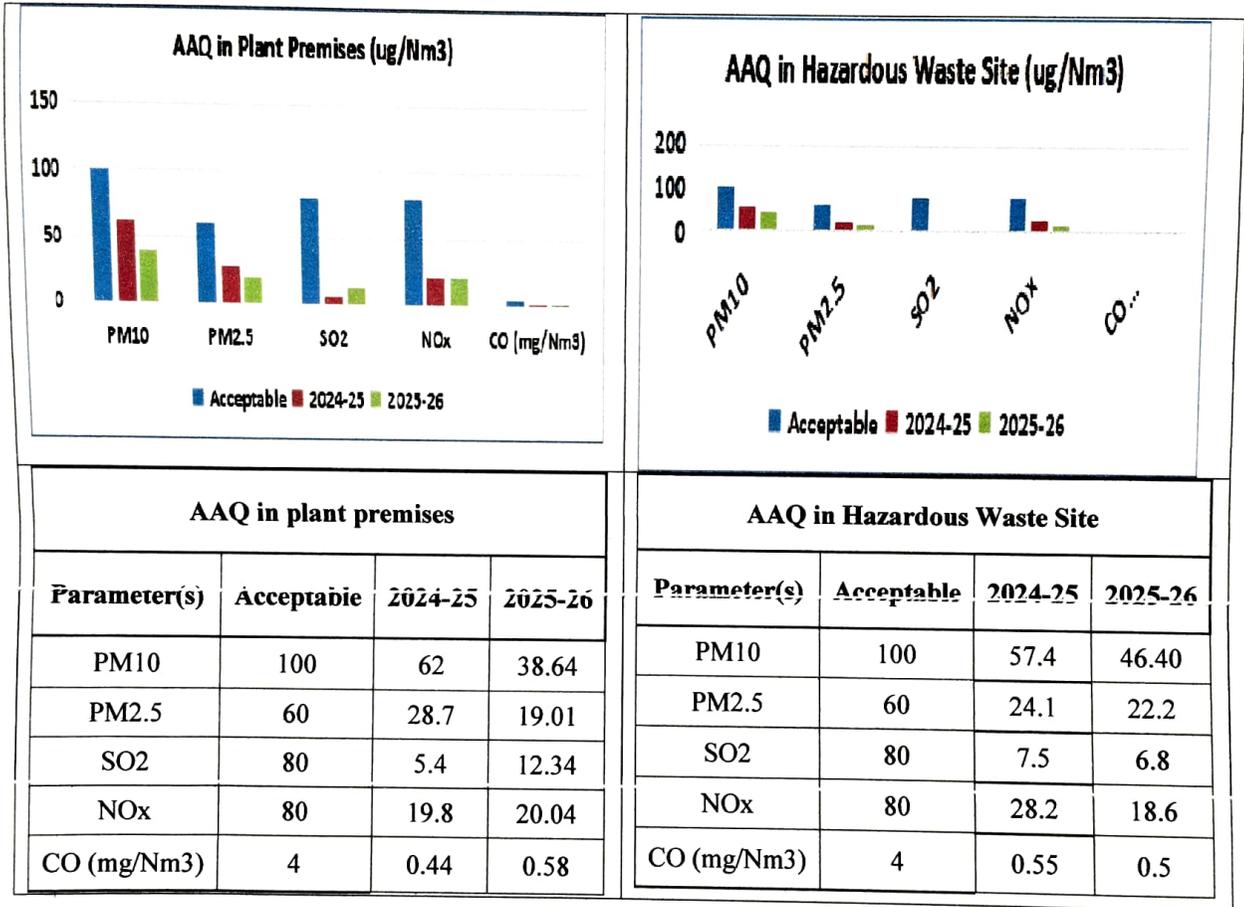


Stack Emission Monitoring Parameters			
	Acceptable	2024-25	2025-26
CFBC	50	47.8	41.6
AFBC	50	40.1	40.1
WHRB-I	100	42.7	32.9
WHRB-II	100	51.5	24.8
2 x 9 MVA FAP	100	46.2	28.4
1 x 18 MVA FAP	100	62.7	31.8
RHF, Rolling Mill	100	30.6	36.4
DRI – 1 Bag Filter	100	45.1	45.1
DRI – 2 Bag Filter	100	52.5	52.5
DRI – 4 Bag Filter	100	71.0	30.9
Briquetting Plant	100	35.4	24.0
SMS- Primary	100	54.9	38.6
SMS- Secondary	100	25.4	31.4

Building No. P-48,  
 Udayan Industrial Estate,3,  
 Pagladanga Road  
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**Name & Address of the Customer :**  
**AARTI STEELS LIMITED**  
 Ghantikhal , Athagarh , Cuttack

**Report No. :** BBS/600  
**Date :** April - September 2025  
**Description :** Six month Data for EC Compliance  
**Location :** Plant  
**Details :** Ambient Air Emission Comparison sheet



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



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

## TEST REPORT

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

**Report No. :** BBS/600  
**Date :** April - September 2025  
**Description :** Six month Data for EC Compliance  
**Location :** Plant  
**Details :** Ambient Air, Stack, Fugitive, Noise, STP, GW, Blowdown, Drinking

## ANALYSIS RESULT

MONITORING AND MEASUREMENT OF ENVIRONMENTAL PARAMETERS (2025-26)						
(from April - 2025 to September - 2025)						
Env. Issue	Sampling point	Parameter(s)	Acceptable	Current Status	Method	
AAQ in Plant Premises	4 selected stations	PM10	100 µg/m <sup>3</sup>	38.64	Beta gauge,UV fluorescent,Chemo luminescence,GAS filter correlation, Gravimetric Method	
		PM2.5	60 µg/m <sup>3</sup>	19.01		
		SO2	80 µg/m <sup>3</sup>	12.34		
		NOx	80 µg/m <sup>3</sup>	20.04		
		CO	4000 µg/m <sup>3</sup>	580		
AAQ in Plant Premises	Hazardous Waste Site	PM10	100 µg/m <sup>3</sup>	46.40	Gravimetric Method	
		PM2.5	60 µg/m <sup>3</sup>	22.2		
		SO2	80 µg/m <sup>3</sup>	6.8		
		NOx	80 µg/m <sup>3</sup>	18.6		
		CO	4000 µg/m <sup>3</sup>	510.0		
Stack Emission Monitoring	CFBC	Particulate Matter	50 mg/Nm <sup>3</sup>	41.6	Dust Opacity	
	AFBC		50 mg/Nm <sup>3</sup>	40.1		
	WHRB-I		100 µg/m <sup>3</sup>	32.9		
	WHRB-II		100 µg/m <sup>3</sup>	24.8		
	2 x 9 MVA FAP Bag Filter		100 µg/m <sup>3</sup>	28.4		
	1 x 18 MVA FAP Bag Filter		100 µg/m <sup>3</sup>	31.8		
	RHF, Rolling Mill		100 µg/m <sup>3</sup>	36.4	Gravimetric Method	
	DRI - 1 Bag Filter		100 µg/m <sup>3</sup>	45.1		
	DRI - 2 Bag Filter		100 µg/m <sup>3</sup>	52.5		
	DRI - 3 Bag Filter		100 µg/m <sup>3</sup>	58.0		
	DRI - 4 Bag Filter		100 µg/m <sup>4</sup>	30.9		
	Bag Filter Briquetting		100 µg/m <sup>3</sup>	24.0		
	SMS- Primary Emission		100 µg/m <sup>3</sup>	38.6		
	SMS- Secondary Emission		100 µg/m <sup>3</sup>	31.4		
	Fugitive Emission Analysis		Near SMS	Particulate Matter		2000 µg/m <sup>3</sup>
Near Coal Store Area		2000 µg/m <sup>3</sup>	1490			
DRI Bagging Area		2000 µg/m <sup>3</sup>	1160			
Raw Materials Feeder Area		2000 µg/m <sup>3</sup>	1670			

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	DRI - Day Bin Area		2000 $\mu\text{g}/\text{m}^3$	1340	
	Near CHP (25m & 30m)		2000 $\mu\text{g}/\text{m}^3$	1020	
	Near Iron ore Crusher		2000 $\mu\text{g}/\text{m}^3$	1280	
	AFBC Boiler		2000 $\mu\text{g}/\text{m}^3$	1280	
	CFBC Boiler Area		2000 $\mu\text{g}/\text{m}^3$	1160	
	RMHA Transfer Area		2000 $\mu\text{g}/\text{m}^3$	1590	
	DRI Separation Area		2000 $\mu\text{g}/\text{m}^3$	1180	
	CDA Oversize Discharge Area		2000 $\mu\text{g}/\text{m}^3$	1380	
	DRI Magnetic Separation Area		2000 $\mu\text{g}/\text{m}^3$	1120	
	FAP Area		2000 $\mu\text{g}/\text{m}^3$	980	
	Railway Siding		2000 $\mu\text{g}/\text{m}^3$	810	
	Char Circuit (AB)		2000 $\mu\text{g}/\text{m}^3$	1240	
	Lime Stone Reclaimer Area (CSA)		2000 $\mu\text{g}/\text{m}^3$	1060	
	Near Briquetting area		2000 $\mu\text{g}/\text{m}^3$	1160	
	CDA Transfer Area		2000 $\mu\text{g}/\text{m}^2$	1530	
	Rolling Mill (Furnace Area)		2000 $\mu\text{g}/\text{m}^4$	1380	
	Rolling Mill (BD area)		2000 $\mu\text{g}/\text{m}$	1870	
<b>Noise in Plant Premises</b>	Central store, SMS, Boundary wall (Railway siding), Purchase Dept, DRI Kiln, SAF, Workers colony, coal washery, Boundary Wall (Main gate), Boundary wall (FAP), DG set, AFBC Boiler, WHRB boiler, DRI Bag filter, Time office, T.G. set, I.O.C, Staff colony, Weigh bridge, Canteen, Reception, EAF, Dispensary, Switch yard, Admn. building, Boundary wall (Gate-2)	Noise	i) 85 dB (A) - work zone/ operation. ii) 75 / 70 dB (A) - day/night Ambient	72.31/ 55.36/ 44.97	Sound Level Meter Analysis
<b>Noise in work zone, dB(A)</b>	DRI			66.95	
	SMS			66.63	
	AFBC		85	80.08	
	CFBC			79.2	
	CHP			65.15	
	FAP			74.2	

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

	IOC			71.4	
	Boundry Wall	Railway Siding			
<b>Ground Water</b>	Village - Ghantikhal	pH ( at 26° C)	6.5 - 8.5	7.1	Analytical Method
		Odour	Agreeable	Agreeable	
		Turbidity in (N.T.U)	1	2.5	
		Total Hardness (as CaCO <sub>3</sub> ) in mg/l	200	66	
		Total Dissolved Solids in mg/l	500	82	
		Sulphate (as SO <sub>4</sub> ) in mg/l	200	11	
		Calcium (as Ca) in mg/l	75	21	
		Arsenic (as As) in mg/l	0.01	BDL(DL:0.05)	
		Lead (as Pb) in mg/l	0.01	BDL(DL:0.05)	
		Zinc (as Zn) in mg/l	5	BDL(DL:0.05)	
		Copper (as Cu) in mg/l	0.05	BDL(DL:0.05)	
		Mercury (as Hg) in mg/l	0.001	BDL(DL:0.01)	
		Cadmium (as Cd) in mg/l	0.003	BDL(DL:0.05)	
		Mineral Oil in mg/l	0.5	BDL(DL:1.0)	
		Fluoride (as F) in mg/l	1	BDL(DL:0.2)	
		Colour ( Hazen Unit )	5	BDL(DL:1.0)	
		Residual free Chlorine in mg/l	0.2	BDL(DL:0.1)	
		Iron (as Fe) in mg/l	1	0.18	
		Chloride (as Cl) in mg/l	250	11.88	
		Aluminium (as Al) in mg/l	0.03	0.27	
Magnesium (as Mg) in mg/l	30	4.49			
Boron (as B) in mg/l	0.5	BDL(DL:0.5)			
Alkalinity (as CaCO <sub>3</sub> ) in mg/l	200	68			
<b>Storm Water Runoff</b>	At the Outlet point to Rain Water Harvesting Pond	pH	6.5-8.5	6.65	Analytical Method
		Total Suspended Solid(mg/L)	100	8.4	
		Oil & Grease	10	below 5	
<b>Blow down Water Analysis Plan</b>	(i) Boiler Blow-down (CFBC)	Total Suspended Solids	100 mg/l.(Max)	3.8	Analytical Method
		Oil & Grease	10.0 mg/l(Max)	< 3.0	
		Copper (Total)	3.0 mg/l(Max)	< 0.02	
		Iron (Total)	3.0 mg/l(Max)	< 0.05	
	(ii) Boiler Blow-down (AFBC)	Total Suspended Solids	100 mg/l.(Max)	3.4	Analytical Method
		Oil & Grease	10.0 mg/l(Max)	< 3.0	
		Copper (Total)	3.0 mg/l(Max)	< 0.02	
		Iron (Total)	3.0 mg/l(Max)	< 0.05	
	(iii) Boiler Blow down (WHRB-1)	Total Suspended Solids	100 mg/l.(Max)	< 2.5	Analytical Method
		Oil & Grease	10.0 mg/l(Max)	< 3.0	
		Copper (Total)	3.0 mg/l(Max)	< 0.02	

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 Email : [udayanlab@mitrask.com](mailto:udayanlab@mitrask.com)

	(iv) Boiler Blow down (WHRB-II)	Iron (Total)	3.0 mg/l(Max)	< 0.05	Analytical Method
		Total Suspended Solids	100 mg/l.(Max)	< 2.5	
		Oil & Grease	10.0 mg/l(Max)	< 3.0	
		Copper (Total)	3.0 mg/l(Max)	< 0.02	
		Iron (Total)	3.0 mg/l(Max)	< 0.05	
Cooling Tower Blow down Analysis Plan	(i) Cooling Tower Blow down (40 MW)	Free available Chlorine	0.5 mg/l(Max)	BDL(DL:0.5)	Analytical Method
		Zinc	1.0 mg/l (Max)	0.08	
		Chromium (Total)	2.0 mg/l (Max)	0.03	
		Total Suspended Solids	100 mg/l.(Max)	7	
	(ii) Cooling Tower Blow down (50 MW)	Free available Chlorine	0.5 mg/l(Max)	BDL(DL:0.5)	Analytical Method
		Zinc	1.0 mg/l (Max)	0.08	
		Chromium (Total)	2.0 mg/l (Max)	<0.01	
		Total Suspended Solids	100 mg/l.(Max)	10	
Sewage Treatment Plant	(i) STP (Staff Colony)	pH	6.5 - 9.0	7.12	Analytical Method
		Total Suspended Solids	100 mg/l.(Max)	38.8	
		BOD for 3 days at 27°C	30 mg/l.(Max)	5.4	
		Faecal Coliform	<1000 MPN/100ml	210	
	(ii) STP (Canteen)	pH	6.5 - 9.0	7.22	
		Total Suspended Solids	100 mg/l.(Max)	22.6	
		BOD for 3 days at 27°C	30 mg/l.(Max)	4.6	
		Faecal Coliform	<1000 MPN/100ml	280	
	(iii) STP (RolligMil)	pH	6.5 - 9.0	6.89	
		Total Suspended Solids	100 mg/l.(Max)	12.6	
		BOD for 3 days at 27°C	30 mg/l.(Max)	4.2	
		Faecal Coliform	<1000 MPN/100ml	250	
	(iii) STP (Batchelor Colony)	pH	6.5 - 9.0	7.32	
		Total Suspended Solids	100 mg/l.(Max)	9.8	
		BOD for 3 days at 27°C	30 mg/l.(Max)	3.6	
		Faecal Coliform	<1000 MPN/100ml	260	
Drinking Water	Colony	pH ( at 26° C)	6.5 - 8.5	7.2	Analytical Method
		Odour	Agreeable	Agreeable	
		Turbidity in (N.T.U)	1	0.41	
		Total Hardness (as CaCO <sub>3</sub> ) in mg/l	200	62.4	

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Email : [udayanlab@mitrask.com](mailto:udayanlab@mitrask.com)

Total Dissolved Solids in mg/l	500	62
Sulphate (as SO <sub>4</sub> ) in mg/l	260	5.1
Calcium (as Ca) in mg/l	75	13.91
Arsenic (as As) in mg/l	0.01	BDL(DL:0.05)
Lead (as Pb) in mg/l	0.01	BDL(DL:0.05)
Zinc (as Zn) in mg/l	5	BDL(DL:0.05)
Copper (as Cu) in mg/l	0.05	BDL(DL:0.05)
Mercury (as Hg) in mg/l	0.001	BDL(DL:0.01)
Cadmium (as Cd) in mg/l	0.003	BDL(DL:0.05)
Mineral Oil in mg/l	0.5	BDL(DL:1.0)
Fluoride (as F) in mg/l	1	BDL(DL:0.2)
Colour ( Hazen Unit )	5	BDL(DL:1.0)
Residual free Chlorine in mg/l	0.2	BDL(DL:0.1)
Iron (as Fe) in mg/l	1	BDL(DL:0.5)
Chloride (as Cl) in mg/l	250	4.36
Alkalinity (as CaCO <sub>3</sub> ) in mg/l	200	60
Aluminium (as Al) in mg/l	0.03	0.11
Magnesium (as Mg) in mg/l	30	4.29
Boron (as B) in mg/l	0.5	BDL(DL:0.5)

**Report Prepared By :**

Signature : *S. K. Mohanty*  
Name : Mr. S.K. Mohanty  
Designation : Office Assistant



**Report Verified By :**

Signature : *A. K. Rath*  
Name : Mr. A.K. Rath  
Designation : Operation-in-charge

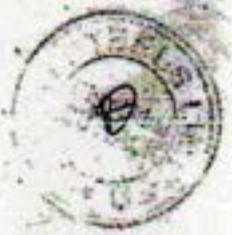
Annexure 7 - Water Balance

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

S.N:	UNIT	CONSUMPTION
1	Manufacturing Process	39 m <sup>3</sup> /hr
2	As Wash water	43 m <sup>3</sup> /hr
3	As cooling water	560 m <sup>3</sup> /hr
4	Domestic	Nil
5	Agriculture	6 m <sup>3</sup> /hr
6	Other Use (Green belt, Fire Service, Other)	700 m <sup>3</sup> /hr
	Total	

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 Via-Atlingarh, Cuttack





**National Accreditation Board for  
Testing and Calibration Laboratories**

**CERTIFICATE OF ACCREDITATION**

**MITRA S. K. PRIVATE LIMITED**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
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for its facilities at

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in the field of

**TESTING**

Certificate Number: TC-16686

Issue Date: 01/09/2025

Valid Until: 31/08/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

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

Signed for and on behalf of NABL



Anuja Anand  
Director

N. Venkateswaran  
Chief Executive Officer

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

**TEST REPORT**

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

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

**BACTERIOLOGICAL ANALYSIS RESULT AS PER IS: 10500 – 2012**

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

**CHEMICAL ANALYSIS RESULT AS PER IS: 10500 – 2012**

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

Report Prepared by: *S.K. Mohanty*

For Mitra S. K. Private Limited

*S.K. Pathy*  
Authorized Signatory

## Mitra S. K. Private Limited



Building No. P-48,  
Udayan Industrial Estate,3,  
Pagladanga Road  
Kolkata 700015.  
Tel. : 91 7044036120. Fax : 91 33 23230078.  
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**TEST REPORT**

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

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

**BACTERIOLOGICAL ANALYSIS RESULT AS PER IS: 10500 – 2012**

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

**CHEMICAL ANALYSIS RESULT AS PER IS: 10500 – 2012**

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

Report Prepared by: *S. K. Mohanty*

For Mitra S. K. Private Limited

*A. K. Raha,*  
Authorized Signatory

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

**TEST REPORT**

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

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

**BACTERIOLOGICAL ANALYSIS RESULT AS PER IS: 10500 – 2012**

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

**CHEMICAL ANALYSIS RESULT AS PER IS: 10500 – 2012**

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

Report Prepared by: *S.K. Mohanty*

For Mitra S. K. Private Limited

*S.K. Pauth.*  
Authorized Signatory

## Mitra S. K. Private Limited



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

**TEST REPORT**

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

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

**BACTERIOLOGICAL ANALYSIS RESULT AS PER IS: 10500 – 2012**

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

**CHEMICAL ANALYSIS RESULT AS PER IS: 10500 – 2012**

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

Report Prepared by: *S.K. Mohanty*

For Mitra S. K. Private Limited

*A.K. Pathy.*  
Authorized Signatory

Head Office: Shrachi Centre (5th floor), 74B, A.J.C. Bose Road, Kolkata - 700 016, West Bengal, India.  
Tel. : 91 33 40143000 / 22650006 / 22650007 Fax : 91 33 22650008  
Email : [info@mitrask.com](mailto:info@mitrask.com). Website: [www.mitrask.com](http://www.mitrask.com)

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

**TEST REPORT**

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

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

**BACTERIOLOGICAL ANALYSIS RESULT AS PER IS: 10500 – 2012**

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

**CHEMICAL ANALYSIS RESULT AS PER IS: 10500 – 2012**

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

Report Prepared by: *S.K. Mohanty*

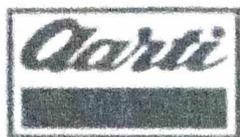
For Mitra S. K. Private Limited

*A.K. Pathy,*  
Authorized Signatory

## Annexure 9 - Solid Waste Management

<b>M/s AARTI STEELS LIMITED, GHANTIKHAL, CUTTACK</b>							
<b>Solid Waste Management Report for the Year (April 2024 - March 2025)</b>							
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	17456.00	12288.00	70.39	Disposed off for road making/land filling/disposal after iron recovery.
2	2 X 500 TPD DRI	Char	132000	34864.00	5851.40	16.78	Used as Fuel in power plant.
		Iron Fines	132000	51620.00	19177.40	37.15	Being sold
		Wet scrapper sludge	10560	2634.00	0.00	0.00	Disposed to allocated solid waste disposal site
		DE Dust	21450	8500.00	8500.00	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	114307.00	114307.00	100.00	Used by supplying fly ash to cement & Brick manufacturing units.
		Bottom ash from AFBC, CFBC,	90000	44587.00	44587.00	100.00	Road making, land fillings and supply for paver blocks making
4	2 X 9 MVA	Slag	25000	20176.00	20176.00	100.00	Road making, land filling and balance is disposed in the allocated disposal site
5	1 x 18 MVA	Slag	25000	23395.00	23395.00	100.00	Road making, land filling and balance is disposed in the allocated disposal site
6	0.2 MTPA Rolling Mill	Mill Scale	2400	980.80	980.80	100.00	Being sold
<b>Total</b>			<b>701510.00</b>	<b>318519.80</b>	<b>249262.60</b>	<b>78.26</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@artisteelsltd.com](mailto:cuttack@artisteelsltd.com)

## HAZARDOUS WASTE MANAGEMENT

### HAZARDOUS MANAGEMENT AT AARTI STEELS LIMITED, GHANTIKHAL

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

**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@artisteelsltd.com](mailto:info@artisteelsltd.com)



**National Accreditation Board for  
Testing and Calibration Laboratories**

**CERTIFICATE OF ACCREDITATION**

**MITRA S. K. PRIVATE LIMITED**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
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for its facilities at

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

in the field of

**TESTING**

Certificate Number: TC-16686

Issue Date: 01/09/2025

Valid Until: 31/08/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

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

Signed for and on behalf of NABL



Anuja Anand  
Director

N. Venkateswaran  
Chief Executive Officer

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

### TEST REPORT

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

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

### ANALYSIS RESULT

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

**Report Prepared By :**

Signature : *S.K. Mohanty*  
 Name : Mr. S.K. Mohanty  
 Designation : Office Assistant

**Report Verified By :**

Signature : *A.K. Rath*  
 Name : Mr. A.K. Rath  
 Designation : Operation-in-charge

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

**TEST REPORT**

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

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

**ANALYSIS RESULT**

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

**Report Prepared By :**

Signature : *S.K. Mohanty*  
 Name : Mr. S.K. Mohanty  
 Designation : Office Assistant

**Report Verified By :**

Signature : *A.K. Rath*  
 Name : Mr. A.K. Rath  
 Designation : Operation-in-charge



**National Accreditation Board for  
Testing and Calibration Laboratories**

**CERTIFICATE OF ACCREDITATION**

**MITRA S. K. PRIVATE LIMITED**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

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

for its facilities at

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

in the field of

**TESTING**

Certificate Number: TC-16686

Issue Date: 01/09/2025

Valid Until: 31/08/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

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

Signed for and on behalf of NABL



*Anuja*  
Anuja Anand  
Director

*N. Venkateswaran*  
N. Venkateswaran  
Chief Executive Officer

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

## TEST REPORT

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

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

## ANALYSIS RESULT

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

**Report Prepared By :**

Signature : *S.K. Mohanty*  
Name : Mr. S.K. Mohanty  
Designation : Office Assistant

**Report Verified By :**

Signature : *A.K. Rath*  
Name : Mr. A.K. Rath  
Designation : Operation-in-charge



## Annexure 14 - Greenbelt Report

<b>PLANTATION DETAILS</b>							
<b>Year</b>	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
<b>Plantation</b>	5240	4850	3560	2850	5640	4820	5120
<b>No. Trees Available</b>	246730	251970	256820	259670	265310	270130	275250
<b>Types of Species of Trees</b>							
<b>Sl. No.</b>	<b>Species Name</b>	<b>Scientific Name</b>		<b>Total No. Of Trees</b>			
1	Chakunda	Senna Occidentalis		14500			
2	Acasia	Acasia Auriculiformis		13500			
3	Cashew	Anacardium Occidentale		12500			
4	Kochila	Strychnos Nux-vomica		13000			
5	Neem	Azadirachta Indica		13500			
6	Karanja	Milletia Pinnata		12500			
7	Chironji	Buchanania Cochinchinesis		12000			
8	Kurei	Hollorhena Pubescens		14000			
9	Bela	Aegla Mermelos		100			
10	Kendu	Diospyres Melanoxyton		17500			
11	Giringa	Pterospernum Xylocarpum		15550			
12	Bheru	Chloroxyton Swietenia		14500			
13	Amaltash	Fics Infectoria		100			
14	Niras (Chara)	Memecyton Umbellatum		15000			
15	Dalshing	Suregada Anguistifolia		14000			
16	Atundi	Combretum Roxburghi		13500			
17	Mango	Mangifera Indica		9000			
18	Teak	Tectona Grandis		800			
19	Krishnachuda	Delonix Regia		1000			
20	Pistachio	Pistacia Vera		2000			
21	Arjuna	Terminalia Arjun		2000			
22	Jamun	Syzygium Cumuni		300			
23	Sissoo	Dalbergia Sissoo		9500			
25	Amla	Terminalia chebula		500			
26	Debdaru	Polyanthia longifolia		500			
28	Gambhari	Gmelina Arborea		12000			
29	Subabul	Leucaena leucocephala		13500			
30	Jack Fruit	Artocarpus heterophyllus		1000			
31	Piasala	Pterocarpus Marsupium		5000			
32	Jacranda	Jacaranda mimosifolia		1000			
33	Sirisa	Albizia lebbeck		7400			
35	Ber	Ziziphus mauritiana		1000			
36	Bahada	Terminalia bellirica		5000			
37	Harida	Terminalia chebula		8000			
<b>Total</b>						<b>275250</b>	
Total Project Area: 315.1 Ha.							
Greenbelt Area: 111.5 Ha.							

Tree Plantation report During FY 2025-2026			
Sn.	Name of plant	Total no.of plant	Used location
1	Pomegranate( <i>Punica granatum</i> )	7	Near STP - Staff Colony
2	Guavav( <i>Psidium guajava</i> )	7	
3	Lemon( <i>citrus lemon</i> )	7	
4	Sapodilla( <i>Manilkara zapota</i> )	7	
5	Mango ( <i>Mangifera indica</i> )	10	
6	Jamun ( <i>Syzygium cumini</i> )	10	
7	Chakunda( <i>Senna Occidentalis</i> )	360	New Bachelor Building
8	Acasia( <i>Acasia Auriculiformis</i> )	540	Near STP - Staff Colony
9	Jamun ( <i>Syzygium cumini</i> )	420	
10	Ber( <i>Ziziphus mauritiana</i> )	56	New Bachelor Building
11	Bahada( <i>Terminalia bellirica</i> )	60	Railway side near mata mandir
12	Harida( <i>Terminalia chebula</i> )	40	
13	Arjuna( <i>Terminalia Arjun</i> )	43	Mango field near Gate-2
14	Jamun( <i>Syzygium Cumuni</i> )	44	42 acre
15	Pomegranate( <i>Punica granatum</i> )	242	
16	Neem( <i>Azadirachta indica</i> )	115	
17	Amla( <i>Terminalia chebula</i> )	145	
18	Debdaru( <i>Polyanthia longifolia</i> )	360	
19	Sissoo( <i>dalbergia sisso</i> )	820	
20	Chakunda( <i>Senna Occidentalis</i> )	60	Near Bachelor Colony
21	Acasia( <i>Acasia Auriculiformis</i> )	70	
22	Chakunda( <i>Senna Occidentalis</i> )	153	
23	Albazia lebback	150	
24	Guavav( <i>Psidium guajava</i> )	520	
25	Lemon( <i>citrus lemon</i> )	120	
26	Sapodilla( <i>Manilkara zapota</i> )	35	
27	Mango ( <i>Mangifera indica</i> )	145	
28	Jamun ( <i>Syzygium cumini</i> )	350	
29	Neem( <i>Azadirachta indica</i> )	20	Mango field near Guest house
30	Amla( <i>Terminalia chebula</i> )	71	simplex side near mango field
31	Pistachio	45	behind the Rolling mill
32	Delonix razia	80	behind the Rolling mill
33	Mango ( <i>Mangifera indica</i> )	10	simplex side near mango field
	<b>Total</b>	<b>5120</b>	

## Tree Plantation report During FY 2024-2025

Sn.	Name of plants	Qty	Location
1	Caesalpinia pulcherrima	310	Infront of GET garden Road Side
2			
3	Pistachio	120	Ash Pond
4	Pussy Willow	190	
5	Terminalia bellirica	310	
6	Syzium(jamun)	310	
7	Guava,jackfruit,syzium	210	
8	jamun(Syzygium cumini)	305	
9	Dalbergia sissoo,arjun,	370	
10	Acacia auriculiformis)	300	Jigging Area
11	Chakunda(peltapharum)	620	Canteen
1	karanja (milliata pinnata)	360	Infront of STP (Near GET)
	Acacia auriculiformis)		
	Amla (Phyllanthus emb)		
2	Neem (Azadirachta indica)	480	Traffic Post
3	Sissoo( <i>dalbergia sisso</i> )	650	Ash Pond
4	Amla (Phyllanthus emb)	286	Rolling Mill
	Guava,jackfruit,syzium		
		<b>4820</b>	

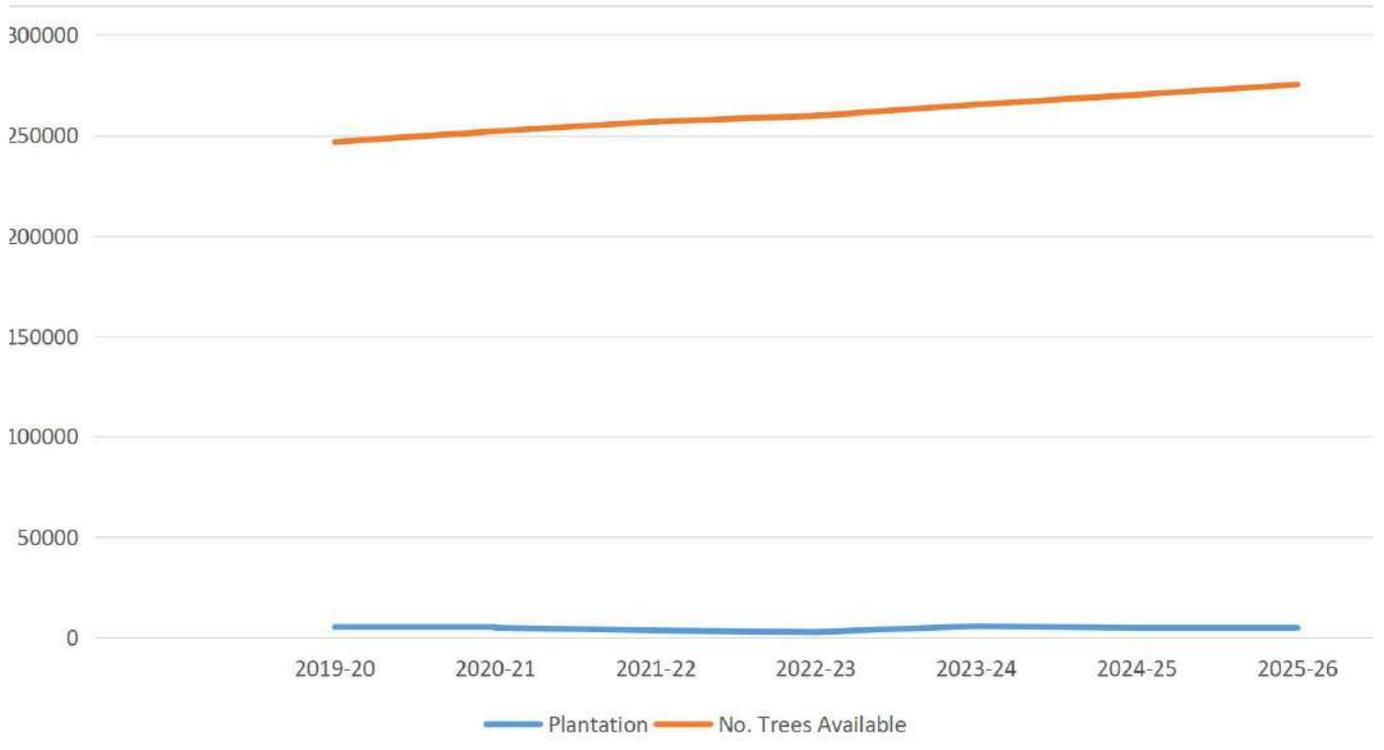
### Tree Plantation report During FY 2023-24

Sr.No.	Name of plant	Total no.of plant	Used location
1	karanja (milliata pinnata)	185	42 acre
2	karanja (milliata pinnata)	655	42 acre
3	mango (mangifira indica)	8	Behind of driver room
4	karanja (milliata pinnata)	350	42 acre
5	karanja (milliata pinnata)	540	42 acre
6	karanja (milliata pinnata)	250	42 acre
7	Acacia auriculiformis)	158	Behind of guest house
8	Amla (Phyllanthus emb)	45	Behind of guest house
9	Mango (mangifira indica)	61	Power plant to abc colony of behind
10	Amla (Phyllanthus emb)	65	Rolling plant side
11	Chakunda(peltapharum)	112	Rolling plant side
12	Fics	14	front of D block
13	Crotons	81	behind of c block
14	tabermontana	7	C block
15	Hibiscus	45	C block
16	Hibiscus	5	Colony security gate with road side
17	tabermontana	6	Colony security gate with road side
18	kanar(thevatia narofolia)	5	A block with road side
19	fics	41	behind of d block
20	kanar(thevatia narofolia)	10	behind of b block
21	tabermontana	16	behind of b block
22	hibiscus	11	behind of c block
23	Chakunda(peltapharum)	40	DRI
24	mango (mangifira indica)	36	mango field near mata mandir
25	karanja (milliata pinnata)	110	Railway engine side
26	Amla (Phyllanthus emb)	42	Railway engine side
27	Amla (Phyllanthus emb)	155	Railway engine side
28	Acacia auriculiformis)	45	Railway engine side
29	karanja (milliata pinnata)	25	Railway engine side
30	karanja (milliata pinnata)	234	Railway engine side
31	Amla (Phyllanthus emb)	25	Railway engine side
32	Neem (Azadirachta indica)	50	Railway engine side
33	Amla (Phyllanthus emb)	50	DRI
34	karanja (milliata pinnata)	50	DRI
35	Acacia auriculiformis)	50	DRI
36	Amla (Phyllanthus emb)	140	Simplex side
37	Neem (Azadirachta indica)	10	power plant road side
38	Acacia auriculiformis)	30	Simplex side
39	Neem (Azadirachta indica)	20	Simplex side
40	karanja (milliata pinnata)	30	Simplex side
41	karanja (milliata pinnata)	30	Simplex side
42	Acacia auriculiformis)	40	Simplex side
43	Neem (Azadirachta indica)	10	Simplex side
44	Acacia auriculiformis)	40	DRI Simplex side
45	Amla (Phyllanthus emb)	48	DRI Simplex side
46	Chakunda(peltapharum)	61	DRI Simplex side
47	Chakunda(peltapharum)	81	Sai Baba Office
48	mango (mangifira indica)	205	Sura Contractor
49	karanja (milliata pinnata)	95	Admin Building
50	Amla (Phyllanthus emb)	35	Medical
51	Amla (Phyllanthus emb)	55	Canteen
52	Acacia auriculiformis)	122	DRI
53	karanja (milliata pinnata)	161	WTP
54	karanja (milliata pinnata)	452	Switch Yard
55	Amla (Phyllanthus emb)	209	Central Store
56	Neem (Azadirachta indica)	58	SMS
57	tabermontana	22	Powerplant
58	kanar(thevatia narofolia)	72	FAP
59	Hibiscus	41	CHP
60	tabermontana	33	Weigh Bridge
		<b>5637</b>	

Tree Plantation report for the FY 2022-2023			
Sn.	Name of plant	Total no.of plant	Used location
1	Pomegranate( <i>Punica granatum</i> )	5	Guest House
2	Guavav( <i>Psidium guajava</i> )	10	
3	Lemon( <i>citrus lemon</i> )	10	
4	Sapodilla( <i>Manilkara zapota</i> )	5	
5	Mango ( <i>Mangifera indica</i> )	10	
6	Jamun ( <i>Syzygium cumini</i> )	10	
7	Mango ( <i>Mangifera indica</i> )	36	Maingate to Mata Mandir
8	Mango ( <i>Mangifera indica</i> )	100	STP to Bachelor Colony
9	Jamun ( <i>Syzygium cumini</i> )	105	
10	Mango ( <i>Mangifera indica</i> )	56	Simplex to STP
11	Mango ( <i>Mangifera indica</i> )	60	Switch Yard
12	Mango ( <i>Mangifera indica</i> )	40	
13	Mango ( <i>Mangifera indica</i> )	43	Driver Room
14	Sissoo( <i>dalbergia sisso</i> )	44	42 acre
15	Sissoo( <i>dalbergia sisso</i> )	242	
16	Neem( <i>Azadirachta indica</i> )	115	
17	Sissoo( <i>dalbergia sisso</i> )	145	
18	Sissoo( <i>dalbergia sisso</i> )	254	Mata Mandira
19	Sissoo( <i>dalbergia sisso</i> )	232	
20	Sissoo( <i>dalbergia sisso</i> )	60	
21	Albazia lebback	70	
22	Chakunda	153	
23	Albazia lebback	150	
24	Sissoo( <i>dalbergia sisso</i> )	210	
25	Sissoo( <i>dalbergia sisso</i> )	120	
26	Albazia lebback	35	
27	Sissoo( <i>dalbergia sisso</i> )	145	
28	Sissoo( <i>dalbergia sisso</i> )	156	Gate 2
29	Mango ( <i>Mangifera indica</i> )	20	
30	Mango ( <i>Mangifera indica</i> )	71	
31	Pistachio	45	Bachelor Colony
32	Delonix razia	80	
33	Mango ( <i>Mangifera indica</i> )	10	
	<b>Total</b>	<b>2845</b>	

Tree Plantation report for the FY 2021-2022				
Sr.No.	Name of plant		Total no.of plant	Used location
1	Kendu	<i>Diospyres Melanoxylon</i>	185	Boundary side near solid waste dumping area
2	Giringa	<i>Pterospernum Xylocarpum</i>	655	Near Rolling Mill area
3	Bheru	<i>Chloroxylon Swietenia</i>	8	Near Gate 2 area (Eastern site)
4	Amaltash	<i>Fics Infectoria</i>	350	
5	Niras (Chara)	<i>Memecylon Umbellatum</i>	540	Near Worker Colony and STP area
6	Dalshing	<i>Suregada Anguistifolia</i>	250	Near RMHS Area
7	Atundi	<i>Combretum Roxburght</i>	130	Near FAP Area (North-East Boundary)
8	Mango	<i>Mangifera Indica</i>	45	Near Coal handling plant (South Side)
9	Teak	<i>Tectona Grandis</i>	30	
10	Krishnachuda	<i>Delonix Regia</i>	5	
11	Pistachio	<i>Pistacia Vera</i>	65	
12	Arjuna	<i>Terminalia Arjun</i>	12	Near Coal Shed and Canteen Area
13	Jamun	<i>Syzygium Cumuni</i>	14	
14	Sissoo	<i>Dalbergia Sissoo</i>	11	
15	Amla	<i>Terminalia chebula</i>	7	
16	Debdaru	<i>Polyanthia longifolia</i>	04	
17	Gambhari	<i>Gmelina Arborea</i>	5	
18	Subabul	<i>Leucaena leucocephala</i>	6	
19	Jack Fruit	<i>Artocarpus heterophyllus</i>	5	
20	Piasala	<i>Pterocarpus Marsupium</i>	15	Near Guest House and GET Area
21	Jacranda	<i>Jacaranda mimosifolia</i>	10	
22	Sirisa	<i>Albizia lebbeck</i>	16	
23	Ber	<i>Ziziphus mauritiana</i>	11	
24	Bahada	<i>Terminalia bellirica</i>	40	
25	Harida	<i>Terminalia chebula</i>	36	
26	Chakunda	<i>Senna Occidentalis</i>	110	Near Briquette Plant
27	Acasia	<i>Acasia Auriculiformis</i>	42	Truck Parking Area
28	Cashew	<i>Anacardium Occidentale</i>	155	
29	Kochila	<i>Strychnos Nux-vomica</i>	45	Near Power Plant and DRI Plant
30	Neem	<i>Azadirachta Indica</i>	25	
31	Karanja	<i>Milletia Pinnata</i>	50	
32	Chironji	<i>Buchanania Cochinchinesis</i>	25	Near Water reservoir area
33	Kurei	<i>Hollorhena Pubescens</i>	50	
34	Bela	<i>Aegla Mermelos</i>	50	
26	Harida	<i>Terminalia chebula</i>	50	
27	Chakunda	<i>Senna Occidentalis</i>	50	
28	Acasia	<i>Acasia Auriculiformis</i>	140	
29	Cashew	<i>Anacardium Occidentale</i>	10	Near Railway Siding
30	Kochila	<i>Strychnos Nux-vomica</i>	30	
31	Jacranda	<i>Jacaranda mimosifolia</i>	20	
32	Sirisa	<i>Albizia lebbeck</i>	30	
33	Ber	<i>Ziziphus mauritiana</i>	30	
34	Bahada	<i>Terminalia bellirica</i>	40	
35	Arjuna	<i>Terminalia Arjun</i>	10	
36	Jamun	<i>Syzygium Cumuni</i>	40	Near RMHS and CHP (Inner Boundary area)
37	Sissoo	<i>Dalbergia Sissoo</i>	48	
38	Amla	<i>Terminalia chebula</i>	61	
			<b>3560</b>	

Tree Plantation report for the FY 2020-2021			
Sr.No.	Name of plant	Used location	No.of planted
1	Areca Palm	Power Plant	6
		Admin building beside garden	23
		Rolling Mill	43
		Coloney	60
		Admin building front garden	3
2	Ficus benjameena	Nursery	33
		power Plant	6
		Rolling Mill	48
		Safety trening hall	2
3	JASMINE SAMBACK	COLOney	155
		Admin building front garden	103
		Nursery	55
		cANTEEN	150
		MEDICAL	25
4	Pendanus	G.E.T. Hostel	98
5	Golden duranta	Power Plant	1563
		nursery	14
		S.M.S.	374
6	Rose	Admin building front garden	40
		GUEST HOUSE	10
7	Golden bamboo	Nursery	10
8	Song of india	Nursery	20
9	Acalypha	F.A.P.	242
10	Tecoma ghoudi choudi	F.A.P.	7
		Nursery	13
11	Largestomia indica	F.A.P.	24
12	Foxtail Palm	Power Plant	23
		safety trening hall	16
		W.T.P.	24
13	Raphis Palm	Admin building beside garden	10
14	Aglonema	Admin building front garden	2
15	Anthorium	H.O.D.Cabin	4
16	Senseveria	H.O.D.Cabin	2
17	Calathea	H.O.D.Cabin	2
18	Lucky Bamboo	V.P. Sir cabin	1
19	SElection 1 grass	Power Plant	847.6sqm.
		W.T.P.	749.5sqm.
		F.A.P.	384.2sqm.
		C.H.P.	404.2sqm.
		Safety trening hall	115.38sqm.
		Canteen	68sqm.
		S.M.S.	469.2sqm.
		TOTAL	3097.88sqm.
20	Zoysia grass	Safety trening hall and F.A.P.	610sqm.



**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/607  
Date : 15.09.2025  
Sample No. : MSKGL/ED/2025-26/08/00220  
Sample Description : Ambient Noise

**ANALYSIS RESULT**

Sl. No	Sampling Date	Sampling Location	Results in dB(A)	
			Day Time	Night Time
1.	28.08.2025	Central Store	56.8	42.3
2.	28.08.2025	Switch Yard	54.6	44.2
3.	28.08.2025	Workers Colony	59.8	40.6
4.	28.08.2025	Railway Siding	68.6	50.5
5.	28.08.2025	Weigh Bridge	60.3	53.7
6.	28.08.2025	Guest House	50.4	40.9
7.	28.08.2025	Main Gate	68.7	46.6
8.	28.08.2025	Staff Colony	54.6	44.8
9.	28.08.2025	Admin. Building	55.2	43.1
10.	28.08.2025	Safety Excellence Centre	57.2	45.8
11.	28.08.2025	Traffic point near Coal Washery	61.6	48.9
12.	28.08.2025	Dispensary	51.2	37.8
13.	28.08.2025	Canteen	53.6	45.8

**Noise Limit as per CPCB**

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

Report Prepared by: *S.K. Mahanty*



For Mitra S. K. Private Limited

*S.K. Rath.*  
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/708  
Date : 15.09.2025  
Sample No. : MSKGL/ED/2025-26/08/00300  
Sample Description : Noise ( Work Zone )

### Noise Level Monitoring Data

<u>Sl. No</u>	<u>Sampling Date</u>	<u>Sampling Location</u>	<u>Results in Avg Leq dB(A)</u>
1.	28.08.2025	SMS LRF	68.8
2.	28.08.2025	SMS EAF	70.4
3.	28.08.2025	SMS CCM	71.2
4.	28.08.2025	IOC Terax Crusher Area	68.5
5.	28.08.2025	IOC Screen Building	66.7
6.	28.08.2025	CHP 400 TPH Crusher	74.8
7.	28.08.2025	CHP 220 TPH Crusher	73.2
8.	28.08.2025	FAP 1x18 MVA Furnace GF	69.4
9.	28.08.2025	FAP 1x18 MVA Compressor Room	74.8
10.	28.08.2025	FAP 2x9 MVA Furnace GF	69.2
11.	28.08.2025	FAP 2x9 MVA Compressor Room	75.8
12.	28.08.2025	Briquetting Mixture Machine	76.6
13.	28.08.2025	Briquetting Drier	78.2
14.	28.08.2025	DRI Kiln I	68.4
15.	28.08.2025	DRI Kiln II	69.3
16.	28.08.2025	DRI Bagging Area	58.6

Report No: BBS/708

Date: 15.09.2025

17.	28.08.2025	DRI Cooler Discharge Area	71.2
18.	28.08.2025	DG Set Power Plant	73.8
19.	28.08.2025	CFBC Boiler	79.2
20.	28.08.2025	AFBC Boiler	77.3
21.	28.08.2025	WHRB I Boiler	76.8
22.	28.08.2025	WHRB II Boiler	73.4
23.	28.08.2025	TG Set	72.6
24.	28.08.2025	Air Compressor	78.4
25.	28.08.2025	Rolling Mill Area	68.2

<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: *S.K. Mohanty*

For Mitra S. K. Private Limited

*A.K. Pathy*

Authorized Signatory

Annexure 16 - Consolidated Peripheral Expenditure

**CONSOLIDATED PERIPHERAL EXPENDITURES IN  
DIFFERENT HEADS  
(April-25 to September-25)**

<b>SL NO</b>	<b>PARTICULARS</b>	<b>AMOUNT</b>
01	HEALTH CARE	0
02	EDUCATION	76,200.00
03	SPORTS	0
04	COMMUNITY DEVELOPMENT, SOCIAL WELFARE & OTHERS	12,16,000.00
	<b>TOTAL</b>	<b>Rs 12,92,200.00</b>



## Annexure 17 - Expenditure Incurred on Environment Protection Measures

### **Expenditure Incurred on Environmental Protection Measures** **by Aarti Steels Limited (for the period 01.04.2025 to 30.09.2025)**

- Total Expenditure incurred so far is **Rs 1196.56 (As per CA certificate)**
- Total cost incurred on environmental protection measures as on 30.09.2025 (Half-yearly) is **63.37 crore.**

Sl. No.	Category	Total Cost incurred till 31.03.2025 (in Crore)	Total Cost incurred till 30.09.2025 (in Crore)
1.	Air Pollution Control	76.97	24.32
2.	Water Pollution Control	5.59	4.34
3.	Conservation of Resources	1.01	0.62
4.	Noise Pollution Control	0.2125	0.1
5.	Environment Monitoring	10.87	4.20
6.	Occupational Health	8.03	2.12
7.	Green Belt Development	12.65	2.6
8.	House Keeping	7.55	2.2
9.	Peripheral Development	2.296	5.6
10.	Solid Waste Management	22.35	8.66
11.	Hazardous Waste Management	0.61	0.4
12.	Statutory Fees	15.4	5.7
13.	Bio-medical Waste Management	0.019	0.01
14.	Others	8.68	2.5
	<b>Total</b>	<b>172.25</b>	<b>63.37</b>





An ISO 9001:2015, ISO14001:2015,  
ISO 45001:2018 and  
IATF 16949:2016 Certified Company

## AARTI STEELS LIMITED

**City Office** : Plot No. 7GH-1160P, Besides High Court Officers Colony  
sector - 9, CDA, **Cuttack** - 753014, (Odisha) India  
**Phone** : +91 - 671-7161000, Mob. No.:9437083586  
**Fax** : +91 - 671-7161150, 2309407  
**E-mail** : [cuttack@aartisteelsltd.com](mailto:cuttack@aartisteelsltd.com)

### UNDERTAKING

Date:10.12.2025

To  
The Regional Office  
Ministry of Environment, Forest & Climate Change  
Bhubaneswar, Odisha

**Subject: Undertaking regarding submission of Environmental Clearance (EC)  
Advertisement – Compliance to General Condition No. XII**

Sir,

With reference to the observation raised regarding non-submission of the advertisement confirming that the project has been accorded Environmental Clearance by the Ministry, we hereby submit the following undertaking:

**We undertake that the Environmental Clearance (EC) advertisement, published in two widely circulated newspapers (one in vernacular language) as per the requirement of General Condition No. XII of the EC, will be submitted to the Hon'ble Regional Office immediately upon retrieval of the required documents.**

**Further, we assure that necessary corrective actions are being initiated to locate, retrieve, and maintain all records pertaining to the EC advertisement, ensuring that such non-submission does not recur in future.**

For  
**Aarti Steels Limited**  
Ghantikhal, Athgarh, Cuttack, Odisha

  
**Factory manager**

#### Works

:Ghantikhal, P.O.: Mahakalabasta, Via : Athagarh, Dist. : Cuttack - 754029 (Odisha) - India  
**Phone** : +91-671-7161000, Fax : +91-671-7161148, 7161150

#### Regd. Office/H.O.

:G.T. Road, Miller Ganj, Ludhiana - 141003 (Punjab), India, Ph : +91-161-3006100,  
**Fax** : +91-161-3006150, Email : [info@aartisteelsltd.com](mailto:info@aartisteelsltd.com)