

# COMPLIANCE REPORT FOR

THE PERIOD APRIL'2020 – SEPTEMBER'2020

# ENVIRONMENTAL CLEARANCE

EC Letter No. J-11011/112/2013-IA.II(I), date 13th February, 2020



## **Ardent steel limited**

Vill: Phuljhar, Block: Banspal, Dist: Keonjhar, Odisha.



**Ardent steel limited**  
CIN- U27310CT2007PLC007671

Ref. No. ASL / MoEF & CC / 2020-21

Date: 7<sup>th</sup> January, 2021

To  
The Director  
Ministry of Environment & Forest, Govt. of India  
Eastern Regional Office,  
A/3, Chandrasekharapur,  
Bhubaneswar – 751 023



Sub: Submission of Half Yearly Environmental Clearance Compliance Report for Enhancement in Production capacity of Existing Iron Ore Pellet Plant from 6,00,000 TPA to 6,90,000 TPA through Process Optimization of M/s. Ardent Steel Limited in village - Phuljhar, Block - Bansapal, Dist. - Keonjhar, Odisha

Ref: EC Letter No. J-11011/112/2013-IA.II(I), date 13<sup>th</sup> February, 2020

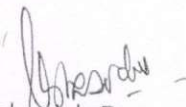
Dear Sir,

As per the conditions given in the Environmental Clearance accorded to our Existing Iron Ore Pellet Plant for Enhancement in Production capacity through Process Optimization in Phuljhar village of Keonjhar district on 13<sup>th</sup> February, 2020, we are herewith submitting the Half Yearly Environmental Clearance Compliance Report for the period of April' 2020 – September' 2020.

Thanking you.

Yours Faithfully

**For Ardent Steel Limited**

  
Dr. Subhasish Das  
(Director)

Encl: As above.

**NAME OF THE PROJECT:**

M/S. ARDENT STEEL LTD., VILLAGE: PHULJHAR,  
TEHSIL: TELKOI, DIST.: KEONJHAR, ODISHA

**CLEARANCE LETTER/S NO. & DATE:**

EC LETTER No. J-11011/112/2013-IA.II(I),  
DATED 13<sup>TH</sup> FEBRUARY, 2020

**PERIOD OF COMPLIANCE:** APRIL, 2020 TO SEPTEMBER, 2020

**A. SPECIFIC CONDITIONS:**

<i>Sl. No.</i>	<i>CONDITIONS</i>	<i>COMPLIANCES</i>
i.	Ground water extraction shall be limited to 500 KLD at present. No additional ground water extraction is permitted.	Ground water extraction will not exceed 500 KLD at any time.
ii.	No slime pond is permitted.	There will be no slim pond within the plant premises.
iii.	Green belt shall be developed covering 33% of the area in a time frame of two years.	Out of total plant area of 36.781ha, around 12.13 ha (32.97% of total area) of land has green belt cover. During the present six month period 270 saplings are planted in the plant campus and 2700 saplings are distributed to villagers of Andharikhaman, Phuljhar, Chhatna, Dhaladihi, Kasia, etc to plant in their unused land.  These saplings of Amla, Neem, Mahaneem, Guava, Bel, Mango, Jamun, Chhatina, Kendu, etc are procured form Forest Dept. nursery at Anjar, Belda, Telkoi & Chamra.
iv.	Provision for industrial vacuum cleaner to control the fugitive emissions shall be made.	Truck Mounted unit with dual vacuum cleaner is provided. The suction system comprising of one centre brush, two side brushes and two suction heads; one operating at a time having a container volume of 6.5 cum.
v.	Particulate emissions from the stacks shall be less than 30 mg/Nm <sup>3</sup> with bag house as APCD. Emission from ESP shall be less than 50 mg/Nm <sup>3</sup> .	We will stick to the norms. Efforts will be made to reduce the emission from stack to less than 30 mg/Nm <sup>3</sup> by installing, i) new dust collecting bags in each bag house, ii) new ID Fan to increase suction volume

	<p>iii) new heat-exchanger (air cooler) to increase cooling surface area.</p> <p>Following the previous EC, we had taken all necessary steps to keep the emission from stack to less than 50 mg/Nm<sup>3</sup>.</p>
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## B. GENERAL CONDITIONS:

Sl. No.	CONDITIONS	COMPLIANCES
<b>I.</b>	<b>Statutory Compliance:</b>	
1.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	The copy of Consent to Establish & Consent to Operate for production of 0.69 million TPA Pellet issued by SPCB, Odisha are attached as <b>Annexure – 1 &amp; Annexure- 2.</b>
2.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	We have entered into an agreement with Govt. of Odisha to draw 0.2 cusec water from ground water source through 3 bore wells for use in project. This agreement is valid upto 14.07.2021. The copy of this agreement is given as <b>Annexure – 3.</b>
3.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	The HW waste authorization certificate issues by the SPCB, Odisha is valid upto 31.03.2022. This copy of the certificate is attached as <b>Annexure – 4.</b>
<b>II.</b>	<b>Air Quality Monitoring and Preservation:</b>	
1.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 <sup>st</sup> March 2012(Integrated iron & Steel); G.S.R 414 (E) dated 30 <sup>th</sup> May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7 <sup>th</sup> December 2015 (Thermal Power Plants)as	Online stack monitoring facility for the stack has been installed but Due to the frequent network problem data transmission is not always successful. Sufficient air pollution control devices such as ESP, Bag house, Bag filters etc. are provided to keep the pollution level control for all the units. Such as ESPs and Bag Filters etc.



	amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	
2.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986	Fugitive emissions are being controlled as per permissible limit issued by Ministry and also regularly monitoring has been plasticized. Fugitive emission is monitored every month and the monitoring result in this 6month period is attached as <b>Annexure – 5</b> .
3.	The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and S02 and NOX in reference to S02 and NOX emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 <sup>o</sup> each), covering upwind and downwind directions.	The ambient air quality is within the standards stipulated by CPCB. AAQ monitoring results are submitted to Ministry's Regional Office at Bhubaneswar/ OPCB/ CPCB once in six month. The result is attached in <b>Annexure – 6</b> .
4.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.	Complied. Stack monitoring result are in <b>Annexure - 7</b> .
5.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report	Manual stack monitoring, manual monitoring of ambient air quality and fugitive emissions results are attached in this report as annexures.
6.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Bag filters are installed at 6 locations in the plant to control fugitive emission. Apart from it, ESP is connected with Travelling Grate and 60 water sprinklers are there within the plant premises. The detail is attached as <b>Annexure- 8</b> .
7.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Agreed. We have started the process to install them.
8.	Pollution control system in the steel plant shall be provided as per the CREP Guidelines of CPCB.	All recommendation for CREP guidelines will be implemented.

9.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Fugitive emissions are being controlled as per permissible limit issued by Ministry and also regularly monitoring has been plasticized. 60 nos. of Water Sprinklers have been installed along the road as well as loading and unloading points, all roads inside the plant are concrete, a 10 KL capacity mobile water tanker has been engaged to sprinkle water on road, truck mounted sweeper machine is engaged to clean dust. Truck Mounted unit with dual vacuum cleaner is provided. The suction system comprising of one centre brush, two side brushes and two suction heads; one operating at a time having a container volume of 6.5 cum.
10.	Recycle and reuse iron ore fines, coal fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.	In our pellet production process, a small amount of solid waste (like Dust generated from ESP, Dust generated from de-dusting units & broken green pellets) are generated, which are recycled back to the feed system of the pellet plant. Negligible amount of coal ash is being generated from coal gasifier which is being used for levelling of low laying areas in the plant premises.
11.	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Vehicles having valid PUC certificates are engaged in transporting raw materials & finished products. These materials are transported in covered condition.
12.	Wind shelter fence and chemical spraying shall be provided on the raw material stock.	Agreed
13.	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.	Complied.
<b>III. Water Quality Monitoring and Preservation:</b>		
1.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 <sup>st</sup> March 2012 (Integrated iron & steel); G.S.R 414 (E) dated 30 <sup>th</sup> May 2008 (Sponge Iron) as amended from	The plant is operating on the concept of 'zero liquid discharge' i.e. no effluent is discharged outside the plant premises. Hence, no continuous effluent quality monitoring system is required to monitoring

	time to time; S.O. 3305 (E) dated 7 <sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	discharge of effluent liquid.
2.	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Ground water monitoring data during the six month period is attached in <b>Annexure – 9</b> .
3.	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report	There is no effluent discharge to outside. It is a zero liquid discharge unit. Hence, no continuous effluent quality monitoring system required.
4.	The project proponent shall provide the ETP to meet the standards prescribed in G.S.R 277 (E) dated 31 <sup>st</sup> March 2012 (Integrated iron & steel); G.S.R 414 (E) dated 30 <sup>th</sup> May 2008 (Sponge Iron) as amended from time to time; SO. 3305 (E) dated 7 <sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time.	The small quantity of wastewater being generated from the process is treated in settling ponds by gravitational settling and the treated water being recycled in the process only. So effluent treatment plant is not required for this process.
5.	Adhere to 'Zero Liquid Discharge	Agreed, we are following it. No wastewater is discharged outside the plant premises.
6.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards	A 15 KL STP is there within the plant premises to treat domestic waste water.
7.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	The water seepage near the storage yard is being collected through garland drains and routed to a concrete pit. The treated water is recycled into the process.
8.	Tyre washing facilities shall be provided at the entrance of the plant gates.	Not yet installed but we have initiated the process to install it.
9.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Rain Water Harvesting and Ground Water Recharge Plan for our plant has been prepared.

		The rain water from the plant surface, raw material (coal, Iron Ore, etc.) storage yard being collected in a settling pond and utilizing for sprinkling & gardening purpose.
10.	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Digital Flow Meters have been installed at the inlet of all 3 units since 6th November, 2020. Copy of certificates of all 3 units are attached as <b>Annexure - 10</b> .
11.	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Agreed.
<b>D.</b>	<b>Noise Monitoring and Prevention:</b>	
1.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report	The noise level monitoring result during this six month period is within the standards stipulated by CPCB. Attached in <b>Annexure – 11</b> .
2.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time	Accepted. The monitoring result of noise shows that the levels are under 75 dB(A) during day time and 70 dB(A) during night time.
<b>E.</b>	<b>Energy Conservation Measures:</b>	
1.	Use hot charging of slabs and billets/blooms as far as possible.	Not applicable
2.	Waste heat recovery systems shall be provided in all units where the flue gas or process gas exceeds 300 <sup>o</sup> C. .	In our case the flue gas temperature from the pellet plant does not exceed 300 <sup>o</sup> C. Hence no waste heat recovery boiler has been installed.
3.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly; iv. Provide LED lights in their offices and residential areas.	We have initiated the process to install Solar power generation on roof tops of buildings. Order has been placed for procurement. Yes, LED lights are provided in our offices and residential areas.
<b>F.</b>	<b>Waste Management:</b>	
1.	Used refractories shall be recycled as far as possible	Agreed
2.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office. Oil	Negligible quantity of coal ash is generated from the plant process, which is used to backfill the low laying areas of within the plant premises. 5 oil collection pits at 3 locations are



	Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil	provided, which has a total capacity 83.58 KL.
3.	The waste oil, grease and other hazardous waste like acidic sludge from pickling, galvanizing, chrome plating mills etc. shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	The hazardous wastes (HW) generated in plant are used oil and oil sludge. These wastes are collected and stored in HW storage area marked as per Hazardous and other waste Management and Transboundary Movement) Rule 2016. Coal ash which is a solid waste has been analyzed and found that it does not contain any hazardous waste. The HW waste authorization certificate issues by the SPCB, Odisha is attached as <b>Annexure – 4</b> . This certificate is valid upto 31.03.2022.
4.	Kitchen waste shall be composted or converted to biogas for further use	The biodegradable material including kitchen waste are composted and used as manure inside the premises.
<b>G. Green Belt:</b>		
1.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Out of total plant area of 36.781ha, around 12.13 ha (32.97% of total area) of land has green belt cover. During the present six month period 270 saplings are planted in the plant campus and 2700 saplings are distributed to villagers of Andharikhman, Phuljhar, Chhatna, Dhaladihi, Kasia, etc to plant in their unused land. These saplings of Amla, Neem, Mahaneem, Guava, Bel, Mango, Jamun, Chhatina, Kendu, etc are procured form Forest Dept. nursery at Anjar, Belda, Telkoi & Chamra.
2.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Agreed. We are preparing it.
<b>H. Public Hearing and Human Health issues:</b>		
1.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	We have already submitted On Site Emergency Plan for the existing plant.

2.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Agreed; We will care carry out the heat stress analysis for the workmen. Operators are provided with ear muffs and ear plugs. Full body Asbestos Apron issued to employees working at heat zone.
3.	Provision shall be made for the housing of 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.	The present EC is for enhancement in production capacity of pelletizing plant of 6, 00,000 TPA to 6, 90,000 TPA buy using the 4 <sup>th</sup> unused filter press. Other sections of the plant will be able to cope up with the expanded capacity due to inherent design margin to the tune of extra 20%. Thus no new construction is required and hence no housing facility for labourer arises.
4.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Agreed. Occupational Health Surveillance of the workers has been done on a regular basis. Few such examination reports are attached as <b>ANNEXURE – 12</b> for reference.
<b>I. Corporate Environment Responsibility (CER):</b>		
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	Agreed. We will comply to the provision of Corporate Environment Responsibility
2.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/ violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Yes, We have a well laid down environmental policy, which is given in detail in the EAI /EMP report.
3.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will report directly to the	Yes, an Environment Cell is operating at the Plant, which is headed by Dr. Subhasish Das (Director) and he is assisted by the Plant Manager. Other members of the cell

	head of the organization.	area DGM – Process, DGM – Mechanical, DGM – Electrical, DGM – Safety & Environment, AGM – HR (Admin.) & Environment, Manager Q.C. and Asst. Manager Q.C.
4.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Agreed. An effective Environment Management Plan (EMP) is developed for the project. Details in the approved EIA /EMP report.
5.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	We will abide by it.
6.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Iron and Steel plants shall be implemented.	Agreed.
<b>J.</b>	<b>Miscellaneous:</b>	
1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District of State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Yes, it has already been intimated to public and also submitted a copy to the State Pollution Control Board, Odisha. The news of obtaining EC was published in two local newspapers.
2.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied. The compliance report, monitoring report, CSR Activities are being uploaded on company's website (ardentsteel.com) regularly.

4.	The project proponent shall monitor the criteria pollutants level namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Agreed.
5.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environmental clearance portal.	Complied. The six monthly EC compliance report is being submitted regularly.
6.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	The environmental statement for each financial year is submitted regularly to SPCB, Odisha. The copy of the environmental statement for the year 2019-20 is attached as <b>Annexure – 13</b> .
7.	The project proponent 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, commencing the land development work and start of production operation by the project.	The project has been completed before obtaining the EC. Financial Closure : 21 .10.2008 Financial approval : 21.10.2008 Purchase of 1 <sup>st</sup> land : 31.05.2008 Proof for the above already submitted earlier.
8.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Yes, we are following the stipulations of SPCB, Odisha strictly.
9.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Agreed. In a phase wise manner as per CER we will implement them.
10.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF & CC).	Agreed, our future expansion will only be carried out after prior approval of MoEF & CC.
11.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under provisions of Environment (Protection) Act, 1986.	Agreed.



12.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
13.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement the conditions.	Agreed.
14.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	Agreed. All cooperation shall be extended to the officer(s) of the Regional Office during any visit in future.
15.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Agreed.
16.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	There is no appeal against this EC near the National Green Tribunal.

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## PHOTOGRAPHS



Photographs of Plantation



Photographs of Water Sprinkling



Photographs of Display Board



Photographs of Sweeping Machine

**ANNEXURE**

Annexure 1	Consent to Establish issued by SPCB, Odisha
Annexure 2	Consent to Operate issued by SPCB, Odisha
Annexure 3	Copy of Agreement with Govt. of Odisha to draw Ground Water
Annexure 4	Hazardous Waste Authorization Certificate by SPCB, Odisha
Annexure 5	Fugitive Emission Monitoring Result
Annexure 6	Ambient Air Quality Monitoring Result
Annexure 7	Stack Monitoring Result
Annexure 8	Details of Bag Filters & ESP
Annexure 9	Ground Water quality monitoring result
Annexure 10	Certificates of all 3 units regarding installation of Flow Meter
Annexure 11	Noise Level Monitoring Result
Annexure 12	Health check-up report of few staff
Annexure 13	Annual Environment Statement for the year 2019-20





**OFFICE OF THE  
STATE POLLUTION CONTROL BOARD, ODISHA**

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakantha Nagar, Unit – VIII  
Bhubaneswar – 751012, INDIA

By SpeedPost/  
Through online

No. 3563 /

IND-II-CTE-6405

Date 20.03.2020 /

**CONSENT TO ESTABLISH ORDER**

In consideration of the online application no. **2953532** for obtaining Consent to Establish for **M/s Ardent Steel Ltd.**, the State Pollution Control Board is pleased to convey its Consent to Establish under Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 **for enhancement in production capacity of existing Pelletization plant from 6,00,000 TPA to 6,90,000 TPA through process optimization without installation of any plant and machineries inside the existing plant premises, At-Phuljhar** (Plot nos. & Khatanos. as mentioned in application form) in the district of **Keonjhar** with the following conditions.

**GENERAL CONDITIONS.**

1. This Consent to Establish is valid for the raw materials, product, manufacturing process and capacity mentioned in the application form. This order is valid for five years.
2. The industry shall comply to the provisions of Environment Protection Act, 1986 and the rules made there under with their amendments from time to time such as the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended from time to time, Hazardous Chemical Rules, / Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 etc. and amendments there under. The industry shall also comply to the provisions of Public Liability Insurance Act, 1991, if applicable.
3. The industry is to apply for grant of Consent to Operate under Section 25/26 of Water(Prevention & Control of Pollution)Act, 1974 & under Section 21 of Air (Prevention & Control of Pollution)Act, 1981 at least 3 (three) months before the commercial production and obtain Consent to Operate from this Board.
4. **This Consent to Establish is subject to statutory and other clearances from Govt. of Odisha and/or Govt. of India, as and when applicable.**

**SPECIAL CONDITIONS:**

1. The proponent shall carryout production activity with the capacity as per Environmental Clearance granted by MoEF&CC, Govt. of India vide letter No. J-11011/112/2013-IA.II(I), dated 13.02.2020.





2. The proponent shall achieve the enhancement in Pelletization Plant from 6,00,000 TPA to 6,90,000 TPA in the existing facility. Under no circumstances the unit shall install any additional plant facilities to achieve the said enhanced production capacity.
3. This Consent to Establish is granted for the capacity as mentioned above and any expansion in the capacity change or modification in the process addition, alternation any nature has to be undertaken with prior approval of the Board. For any change in the site or area, fresh consent to establish has to be obtained from the Board.
4. **The unit shall obtain NOC from CGWA for using of ground water as prerequisite for getting Consent to Operate of State Pollution Control Board, Odisha.**
5. The industry shall implement the pollution control measures and safeguards as proposed in the Environment Management Plan (EMP).
6. The unit shall obtain authorization from the Board under Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and amended thereafter.
7. The proponent shall comply to the provisions of E-Waste (Management) Rules, 2016 and amendment thereafter and shall handover e-waste to authorized collection centers/register dismantlers/ recyclers for proper disposal of e-waste.
8. The proponent shall comply the plastic waste generated from the premises as per the Plastic Waste Management Rules, 2016 and amendment thereafter.
9. There shall not be any additional land requirement for the proposed expansion as proposed.
10. The proponent shall adopt Zero Liquid Discharge (ZLD) concept and under no circumstances the waste water shall be discharged to outside the factory premises.
11. The additional air pollution load if any shall be managed with the existing air pollution control measures. The unit shall upgrade the existing air pollution control measures if they unable to achieve the emission standards.
12. The unit shall adopt good housekeeping practice as the project will handle lot of iron ore fines, lime stone / dolomite and coke etc.
13. Additional solid waste generated due to proposed expansion shall be disposed off at designated solid waste dump site area without causing any public nuisance.
14. The unit shall abide by the provisions of Environment (Protection) Act, 1986 and rules framed thereunder.
15. No production activity shall commence prior to installation of all pollution control measures. In case it is found that the industry is operated without installation of adequate pollution control equipment, direction for closure shall be issued u/s 31 (A) of Air (PCP) Act, 1981 and / or u/s 33(A) of Water (PCP) Act, 1974 as the case may be without any further notice.

  
CHIEF ENV. ENGINEER

To  
The Director,  
M/s Ardent Steel Limited.,  
Plot No.208, Mining Road, New colony  
District - Keonjhar.



Memo No. \_\_\_\_\_ / Dated \_\_\_\_\_ /

Copy forwarded to:

1. The Collector and District Magistrate, Keonjhar.
2. The District Industries Centre, Keonjhar.
3. The Director, Factories & Boiler, Bhubaneswar.
4. The DFO, Keonjhar.
5. The Regional Officer, SPC Board, Keonjhar.
6. Consent to Operate Section, SPC Board, BBSR
7. Hazardous Waste Management Cell, SPC Board, Bhubaneswar.
8. Copy to Guard file.

  
**SR. ENV. ENGINEER-L-I**





## CONSENT ORDER

BY REGD. POST WITH AD

**STATE POLLUTION CONTROL BOARD, ODISHA**

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]  
Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012  
Phone-2561909, Fax: 2562822, 2560955

**CONSENT ORDER**

No. 3808 / IND-I-CON-6363 Dt. 21.03.2020 /

CONSENT ORDER NO. 2716

Sub : Consent for discharge of sewage and trade effluent under Section 25/26 of Water (PCP) Act, 1974 and emission under Section 21 of Air (PCP) Act, 1981 for operation of the plant.

Ref : Your online application ID No.3016904, Dtd.20-03-2020

Consent to operate is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed thereunder to

Name of the Industry M/s Ardent Steel Limited

Name of the Occupier & Designation Dr. Subhasish Das, Director

Address: Phuljhar, Suakati, Dist-Keonjhar-758018

This consent order supersedes the earlier consent order issued vide Board's Letter No.3010, dtd.25.03.2019.

**Details of Products Manufactured**

Sl. No.	Product	Quantity
1.	Iron Ore Pellet	6,90,000 Metric Tonne /Annum
2.	Producer Gas	25,800Nm <sup>3</sup> /Hr
3.	Flux grinding unit	5 Metric Tonnes/Hour

This consent order is valid for the period upto 31.03.2024

This consent order is valid for the specified outlets, discharge quantity and quality of effluents (ii) quantity of emission and its quality, specified chimney / stack (iii) quantity of solid waste and its disposal as specified below.

This consent is granted subject to the General and Special Conditions stipulated below:



## CONSENT ORDER

**A. Discharge permitted through the following outlet subject to the standard**

Outlet No.	Description of outlet	Point of discharge	Quantity of discharge KLD or KL/hr	Prescribed Standard					
				pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	Fecal Coliform (MPN/100ml)	O & G (mg/l)
01.	Process effluent through settling tanks	Recycled back to process (900 KLD)	NIL	-	-	-	-	-	-
02.	Outlet of STP (15 KLD) for domestic wastewater of plant premises	To be used for gardening	15 KLD	6.5-9.0	30	-	100	1000	-

**B. Emission permitted through the following stack subject to the prescribed standard**

Chimney Stack No.	Description of Stack	Stack height (m)	Quantity of emission (m <sup>3</sup> /hr)	Prescribed Standard (mg/Nm <sup>3</sup> )		
				PM	SO <sub>2</sub>	NO <sub>x</sub>
1	Bag filter at proportioning system (Iron ore fines and coke bunker)	30	8,000	30	-	-
2	Bag filter at raw material transfer point of mixer (Mixture building)	30	4,000	30	-	-
3	Multi cyclone and ESP at travelling grate and rotary kiln	52	-	50	-	-
4	Bag filter at Flux grinding unit	26	6,500	30	-	-

**C. Disposal of solid waste permitted in the following manner**

Sl. No.	Type of Solid waste	Quantity generated (TPD)	Quantity to be reused on site (TPD)	Quantity to be reused off site (TPD)	Quantity disposed off (TPD)	Description of disposal site.
1.	Cinder from Gas Producer Plant	-	-	-	-	Used for low land filling inside plant premises



## CONSENT ORDER

**D. GENERAL CONDITIONS FOR ALL UNITS**

1. The consent is given by the Board in consideration of the particulars given in the application. Any change or alternation or deviation made in actual practice from the particulars furnished in the application will also be the ground for liable to review/variation/revocation of the consent order under section 27 of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 and to make such variations as deemed fit for the purpose of the Acts.
2. The occupier would immediately submit revised application for consent to operate to this Board in the event of any change in the quantity and quality of raw material / products / manufacturing process or quantity /quality of the effluent rate of emission / air pollution control equipment / system etc.
3. The applicant shall not change or alter either the quality or quantity or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
4. The application shall comply with and carry out the directives/orders issued by the Board in this consent order without any negligence on his/her part. In case of non-compliance of any order/directives issued at any time and/or violation of the terms and conditions of this consent order, the applicant shall be liable for legal action as per the provisions of the Law.
5. The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent order.
6. The issuance of this consent does not convey any property right in either real or personal property or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State laws or regulation.
7. This consent does not authorize or approve the construction of any physical structure or facilities or the undertaking of any work in any natural water course.
8. The applicant shall display this consent granted to him in a prominent place for perusal of the public and inspecting officers of this Board.
9. An inspection book shall be opened and made available to Board's Officers during the visit to the factory.
10. The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or of effluent treatment system / air pollution control system / stack monitoring system any other particulars as may be pertinent to preventing and controlling pollution of Water / Air.
11. The applicant shall display suitable caution board at the place where the effluent is entering into any water-body or any other place to be indicated by the Board, indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/bathing.
12. Storm water shall not be allowed to mix with the trade and/or domestic effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.
13. The applicant shall maintain good house-keeping both within the factory and the premises. All pipes, valves, sewers and drains shall be leak-proof. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
14. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems install or used by him to achieve with the term(s) and conditions of the consent.
15. Care should be taken to keep the anaerobic lagoons, if any, biologically active and not utilized as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed impervious.
16. The utilization of treated effluent on factory's own land, if any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or by overflow.
17. The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.
18. If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any problem or becomes a matter of dispute, the occupier must adopt alternate satisfactory treatment and disposal measures.
19. The sludge from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank.
20. The effluent treatment units and disposal measures shall become operative at the time of commencement of production.
21. The applicant shall provide port holes for sampling the emissions and access platform for carrying out stack sampling and provide electrical outlet points and other arrangements for chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provision of the Acts or Rules made therein.
22. The applicant shall provide all facilities and render required assistance to the Board staff for collection of samples / stack monitoring / inspection.



## CONSENT ORDER

23. The applicant shall not change or alter either the quality or quantity or rate of emission or install, replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and/or quantity of emissions, without the previous written permission of the Board.
24. No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of the Board.
25. The liquid effluent arising out of the operation of the air pollution control equipment shall be treated in the manner so as to meet the standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 (as amended).
26. The stack monitoring system employed by the applicant shall be opened for inspection to this Board at any time.
27. There shall not be any fugitive or episodal discharge from the premises.
28. In case of such episodal discharge/emissions the occupier shall take immediate action to bring down the emission within the limits prescribed by the Board and stop the operation of the plant if required. Report of such accidental discharge /emission shall be brought to the notice of the Board within 24 hours of occurrence.
29. The applicant shall keep the premises and air pollution control equipments clean and make all hoods, pipes, valves, stacks/chimneys leak proof. The air pollution control equipments, location, inspection chambers, sampling port holes shall be made easily accessible at all times.
30. Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge/emission of air pollutants and / or result in violation of the standards mentioned shall be reported to the Headquarters and Regional Office of the Board by E-mail within 2 hours of its occurrence.
31. The occupier has to ensure that minimum three varieties of trees are planted at the density of not less than 1000 trees per acre. The trees may be planted along boundaries of the premises. This plantation is stipulated over and above the bulk plantation of trees in that area.
32. The solid waste such as sweeping, wastage packages, empty containers residues, sludge including that from air pollution control equipments collected within the premises of the shall be disposed off scientifically to the satisfaction of the Board.
33. All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by :
  - i) Land fill in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off.
  - ii) Controlled incineration, wherever possible in case of combustible organic material.
  - iii) Composting, in case of bio-degradable material.
34. Any toxic material shall be detoxicated if possible, otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxication or sealing and burying shall be carried out in the presence of Board's authorized persons only. Letter of authorization shall be obtained for handling and disposal of hazardous wastes.
35. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard, vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.
36. The applicant, his/heirs/legal representatives or assignees shall have no claim whatsoever to the condition or renewal of this consent after the expiry period of this consent.
37. The Board reserves the right to review, impose additional conditions or condition, revoke change or alter the terms and conditions of this consent.
38. Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves to it the right and power under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Act by the Board.
39. The conditions imposed as above shall continue to be in force until revoked under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 A of Air (Prevention & Control of Pollution) Act, 1981.
40. In case the consent fee is revised during this period, the occupier shall pay the differential fees to the Board (for the remaining years) to keep the consent order in force. If they fail to pay the amount within the period stipulated by the Board the consent order will be revoked without prior notice.
41. The occupier shall comply to the conditions stipulated in CTE order issued by Odisha State Pollution Control Board and conditions stipulated in Environmental Clearances issued by MoEF&CC, Govt. of India.
42. The occupier shall abide by E(P) Act, 1986 and Rules framed there-under.
43. The Board reserves the right to revoke/refuse consent to operate at any time during period for which consent is granted in case any violation is observed and to modify/ stipulate additional conditions as deemed appropriate.



CONSENT ORDER

**GENERAL CONDITIONS FOR UNITS WITH INVESTMENT OF MORE THAN Rs.50 CRORES,  
AND 17 CATEGORIES OF HIGHLY POLLUTING INDUSTRIES (RED A)**

1. The applicant shall analyse the effluent / emissions and Ambient Air Quality every month through approved laboratory for the parameters indicated in TABLE- 'B', 'C' & Part -'B' as mentioned in this order and shall furnish the report thereof to the Board on monthly basis.
2. The following information shall be forwarded to the Member Secretary on or before 10<sup>th</sup> of every month.
  - a) Performance / progress of the treatment plant.
  - b) Monthly statement of daily discharge of domestic and/or trade effluent.
3. Non-compliance with effluent limitations
  - a) If for any reason the applicant does not comply with or is unable to comply with any effluent limitations specified in this consent, the applicant shall immediately notify the consent issuing authority by telephone and provide the consent issuing authority with the following information in writing within 5 days of such notification.
    - i) Causes of non-compliance
    - ii) A description of the non-compliance discharge including its impact on the receiving waters.
    - iii) Anticipated time of continuance of non-compliance if expected to continue or if such condition has been corrected the duration or period of non-compliance.
    - iv) Steps taken by the applicant to reduce and eliminate the non-complying discharge and
    - v) Steps to be taken by the applicant too prevent the condition of non-compliance.
  - b) The applicant shall take all reasonable steps to minimize any adverse impact to natural waters resulting from non-compliance with any effluent limitation specified in this consent including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.
  - c) Nothing in this consent shall be construed to relieve the applicant from civil or criminal penalties for non-compliance whether or not such non-compliance is due to factors beyond his control, such as break-down, electric failure, accident or natural disaster.
4. Proper housekeeping shall be maintained inside the factory premises including process areas by a dedicated team.
5. The occupier must constitute a team of responsible and technically qualified personnel who will ensure continuous operation of all pollution control devices round the clock (including night hours) and should be in a position to explain the status of operation of the pollution control measures to the inspecting officers of the Board at any point of time. The name of these persons with their contact telephone numbers shall be intimated to the concerned Regional Officer and Head Office of the Board and in case of any change in the team it shall be intimated to the Board immediately.
6. The occupier shall engage dedicated qualified manpower to ensure continuous and effective operation of online stack / Ambient Air Quality / Effluent monitoring stations for maintenance of database, real time data transfer to SPCB server, data analysis and co-ordination with concerned personnel of process units for taking corrective measures in case of non-compliances and to respond to the instructions of SPCB in this matter.





## CONSENT ORDER

**E. SPECIAL CONDITIONS:**

1. The proponent shall achieve the enhancement in the Pelletization Plant from 6,00,000 TPA to 6,90,000 TPA in the existing facility. Under no circumstances the unit shall install any additional plant facilities to achieve the said enhanced production capacity.
2. Adequate dust suppression arrangements shall be provided at raw material handling, product handling, coal handling system and other potential dust generating points to control fugitive emission.
3. The unit shall operate all the air pollution control devices effectively all the time so as to meet the prescribed standard for particulate matter emission as mentioned in Section-B of the consent order.
4. The cinder generated from the Gas Producer Plant shall be dumped in an area earmarked for the same. Sprinkling arrangement shall be provided at the disposal site so that the ash does not become air borne during dry season.
5. The industry shall take expeditious steps to make entire internal roads black topped / concreted by June, 2019 and permanent high pressure water spraying system shall be installed for regular spraying of water on roads and work zone to minimize fugitive emission.
6. The project proponent shall install 24X7 Continuous Emission Monitoring System at process stack to monitor stack emission w.r.t. the standards prescribed in E(P) Rule, 1986 as amended from time to time and connected to SPCB and CPCB online server.
7. The height of the stack connected to DG set shall conform to the following  
$$H = h + 0.2\sqrt{KVA}$$
Where, h= Height of the building where it is installed in meter  
KVA = Capacity of DG set  
H = Height of the stack in meter above ground level.
8. Cooling tower blow down water shall be taken to storage pond and shall be used in green pellet making / dust suppression.
9. Wastewater generated during regeneration of DM plant shall be neutralized and reused for dust suppression.
10. The wastewater generated in slurry form from rotary dryer, indorating furnaces transfer points, pellet screens circuit etc. shall be treated in two nos. of thickeners and supernatant water shall be reused. Thickener underflow shall be taken to vacuum disc filter from where filter cake shall be separated and filtrate shall be collected in sump for reuse.
11. The unit shall provide garland drain around raw material and product stock yard. Run off generated from this area shall be passed through adequate settling arrangement so that the final discharge meets the prescribed general standard for discharge notified under E(P) Act, 1986.



## CONSENT ORDER

12. The industry shall install separate Sewage Treatment Plant (STP) of adequate capacity for treatment of domestic wastewater generated from the colony.
13. There shall not be any discharge of phenolic wastewater from the catch pit. The wastewater generated from the sealing of producer gas plant shall be recycled back to the process after separation of tar.
14. The tar so generated shall be stored off in a concrete pit under a cover shed.
15. The unit shall develop a thick green belt around the factory premises.
16. The unit shall obtain necessary clearance from CGWA for using ground water for industrial and domestic uses.
17. The unit shall obtain authorization from the Board under the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.
18. In case the consent fee is revised upward during this period, the industry shall pay the differential fees to the Board (for the remaining years) to keep the consent order in force. If they fail to pay the amount within the period stipulated by the Board the consent order will be revoked without prior notice.
19. The Board reserves the right to revoke / refuse consent to operate / to modify or stipulate additional conditions as deemed appropriate at any time during period for which consent is granted.
20. Rain water harvesting shall be followed by utilizing the rain water collected from the roof of the administrative buildings for recharging of ground water within the premises as per the concept and practices prescribed by CPCB.

To

**The Director,  
M/s Ardent Steel Ltd.,  
At/PO-Phuljhar, Via-Suakati,  
Dist-Keonjhar**

  
**CHIEF ENV. SCIENTIST  
STATE POLLUTION CONTROL BOARD, ODISHA**

Memo No. 3809 /Dt. 21.03.2020

Copy forwarded to :

- i. Regional Officer, State Pollution Control Board, Keonjhar
- ii. District Collector, Keonjhar
- iii. DDM, Mines, Joda, Keonjhar
- iv. Central Laboratory, SPC Board, Bhubaneswar
- v. Cess Section (Head Office)
- vi. H.S.M. Cell, (Head Office)



  
**CHIEF ENV. SCIENTIST  
STATE POLLUTION CONTROL BOARD, ODISHA**



## CONSENT ORDER

**GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS****Annexure-I****GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART – A : EFFLUENTS**

Sl. No.	Parameters	Standards			
		Inland surface	Public sewers	Land for irrigation	Marine Coastal Areas
		(a)	(b)	(c)	(d)
1.	Colour & odour	Colourless/ Odourless as far as practicable	--	See 6 of Annex-1	See 6 of Annex-1
2.	Suspended Solids (mg/l)	100	600	200	a. For process wastewater – 100 b. For cooling water effluent 10% above total suspended matter of influent.
3.	Particular size of SS	Shall pass 850	--	--	--
5.	pH value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6.	Temperature	Shall not exceed 5 <sup>0</sup> C above the receiving water temperature	--	--	Shall not exceed 5 <sup>0</sup> C above the receiving water temperature
7.	Oil & Grease mg/l max.	10	20	10	20
8.	Total residual chlorine	1.0	--	--	1.0
9.	Ammonical nitrogen (as N) mg/l max.	50	50	--	50
10.	Total Kjeldahl nitrogen (as NH <sub>3</sub> ) mg/l max.	100	--	--	100
11.	Free ammonia (as NH <sub>3</sub> ) mg/l max.	5.0	--	--	5.0
12.	Biochemical Oxygen Demand (5 days at (20 <sup>0</sup> C) mg/l max.	30	350	100	100
13.	Chemical Oxygen Demand, mg/l max.	250	--	--	250
14.	Arsenic (as As) mg/l max.	0.2	0.2	0.2	0.2



## CONSENT ORDER

Sl. No.	Parameters	Standards			
		Inland surface	Public sewers	Land for irrigation	Marine Coastal Areas
		(a)	(b)	(c)	(d)
15.	Mercury (as Hg) mg/l max.	0.01	0.01	--	0.001
16.	Lead (as pb) mg/l max.	01.	1.0	--	2.0
17.	Cardmium (as Cd) mg/l max.	2.0	1.0	--	2.0
18.	Hexavalent Chromium (as Cr + 6) mg/l max.	0.1	2.0	--	1.0
19.	Total Chromium (as Cr) mg/l max.	2.0	2.0	--	2.0
20.	Copper (as Cu) mg/l max.	3.0	3.0	--	3.0
21.	Zinc (as Zn) mg/l max.	5.0	15	--	15
22.	Selenium (as Sc) mg/l max.	0.05	0.05	--	0.05
23.	Nickel (as Nil) mg/l max.	3.0	3.0	--	5.0
24.	Cyanide (as CN) mg/l max.	0.2	2.0	0.2	0.02
25.	Fluoride (as F) mg/l max.	2.0	15	--	15
26.	Dissolved Phosphates (as P) mg/l max.	5.0	--	--	--
27.	Sulphide (as S) mg/l max.	2.0	--	--	5.0
28.	Phenolic compounds as (C <sub>6</sub> H <sub>5</sub> OH) mg/l max.	1.0	5.0	--	5.0
29.	Radioactive materials				
	a. Alpha emitter micro curle/ml.	10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>8</sup>	10 <sup>7</sup>
	b. Beta emitter micro curle/ml.	10 <sup>6</sup>	10 <sup>6</sup>	10 <sup>7</sup>	10 <sup>6</sup>
30.	Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent
31.	Manganese (as Mn)	2 mg/l	2 mg/l	--	2 mg/l
32.	Iron (Fe)	3 mg/l	3 mg/l	--	3 mg/l
33.	Vanadium (as V)	0.2 mg/l	0.2 mg/l	--	0.2 mg/l
34.	Nitrate Nitrogen	10 mg/l	--	--	20 mg/l

## CONSENT ORDER

**Annexure-II****NATIONAL AMBIENT AIR QUALITY STANDARDS**

Sl. No.	Pollutants	Time Weighed Average	Concentrate of Ambient Air		
			Industrial Residential, Rural and other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement
(1)	(2)	(3)	(4)	(5)	(6)
1.	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Annual * 24 Hours **	50 80	20 80	-Improved west and Gaeke - Ultraviolet fluorescence
2.	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Annual * 24 Hours **	40 80	30 80	- Modified Jacob & Hochheiser (Na-Arsenite) - Chemiluminescence
3.	Particulate Matter (size less than 10µm) or PM <sub>10</sub> µg/m <sup>3</sup>	Annual * 24 Hours **	60 100	60 100	-Gravimetric - TOEM - Beta Attenuation
4.	Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> µg/m <sup>3</sup>	Annual * 24 Hours **	40 60	40 60	-Gravimetric - TOEM - Beta Attenuation
5.	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	8 Hours ** 1 Hours **	100 180	100 180	- UV Photometric - Chemiluminescence - Chemical Method
6.	Lead (Pb) µg/m <sup>3</sup>	Annual * 24 Hours **	0.50 1.0	0.50 1.0	-AAS/ICP method after sampling on EMP 2000 or equivalent filter paper. - ED-XRF using Teflon filter
7.	Carbon Monoxide (CO) mg/m <sup>3</sup>	8 Hours ** 1 Hours **	02 04	02 04	- Non Dispersive Infra Red (NDIR) Spectroscopy
8.	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	Annual* 24 Hours**	100 400	100 400	-Chemiluminescence - Indophenol Blue Method
9.	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	Annual *	05	05	-Gas Chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis
10.	Benzo (a) Pyrene (BaP)- Particulate phase only, ng/m <sup>3</sup>	Annual*	01	01	-Solvent extraction followed by HPLC/GC analysis
11.	Arsenic (As), ng/m <sup>3</sup>	Annual*	06	06	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
12.	Nickel (Ni), ng/m <sup>3</sup>	Annual*	20	20	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper

\* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

\*\* 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.





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09AA 539758

**RENEWAL OF AGREEMENT FOR SUPPLY OF WATER FOR THE PURPOSE OF INDUSTRIAL/COMMERCIAL USE**  
THIS TEMPORARY AGREEMENT is made on the 21<sup>st</sup> July Two Thousand Twenty

BETWEEN

**M/s Ardent Steel Limited**, At-Phuljhar, Po-Phuljhar Dist-Keonjhar (Odisha) represented by its Asst. General Manager (HR & Admin), Sri Aswini Kumar Nayak, S/o-Late Anadi Charan Nayak, aged about 43 years of Plot No-151, Gayatri Vihar, Patia, Chandrasekharapur, Bhubaneswar Dist-Khurda, (Odisha) Employee of the applicant by profession, the authorized representative of, M/s Ardent Steel Limited (Hereinafter called **The Applicant**) of the firstpart.

AND

**Dillip Kumar Pany**, S/o-Late Nityananda Pany, aged about 53 years of Plot No-382, Sailashree Vihar, P.S.- Chandrasekharapur, Bhubaneswar Dist-Khurda, (Odisha) Dy. General Manager (Sales and Logistic) employee of the applicant by profession (hereinafter referred to as **The Surety**) of the second part

For Ardent Steel L.t.d

AND

Asst. General Manager  
(HR and Admin)

Aswini Kumar Nayak

Supt. Engineer  
Ballarani Division  
BALAPADA

21/7/20





ଓଡ଼ିଶା ओडिशा ODISHA

50AA 155666

The Governor of Odisha represented by Executive Engineer, Baitarani Division, Keonjhar which expression unless repugnant to the context, shall include his successors and assigns (hereinafter called **The Government**) of the third part.

WHEREAS, the applicant has made an application for supply of water from Government water source (Ground Water from Bore Well) for the period as mentioned in the Schedule; hereto annexed;

AND, WHEREAS, the sureties have agreed to stand surety for payment of rates charges for such supply in the manner hereinafter appearing and the Government has agreed to supply water for the purpose specified in the schedule annexed hereto;

**SCHEDULE**

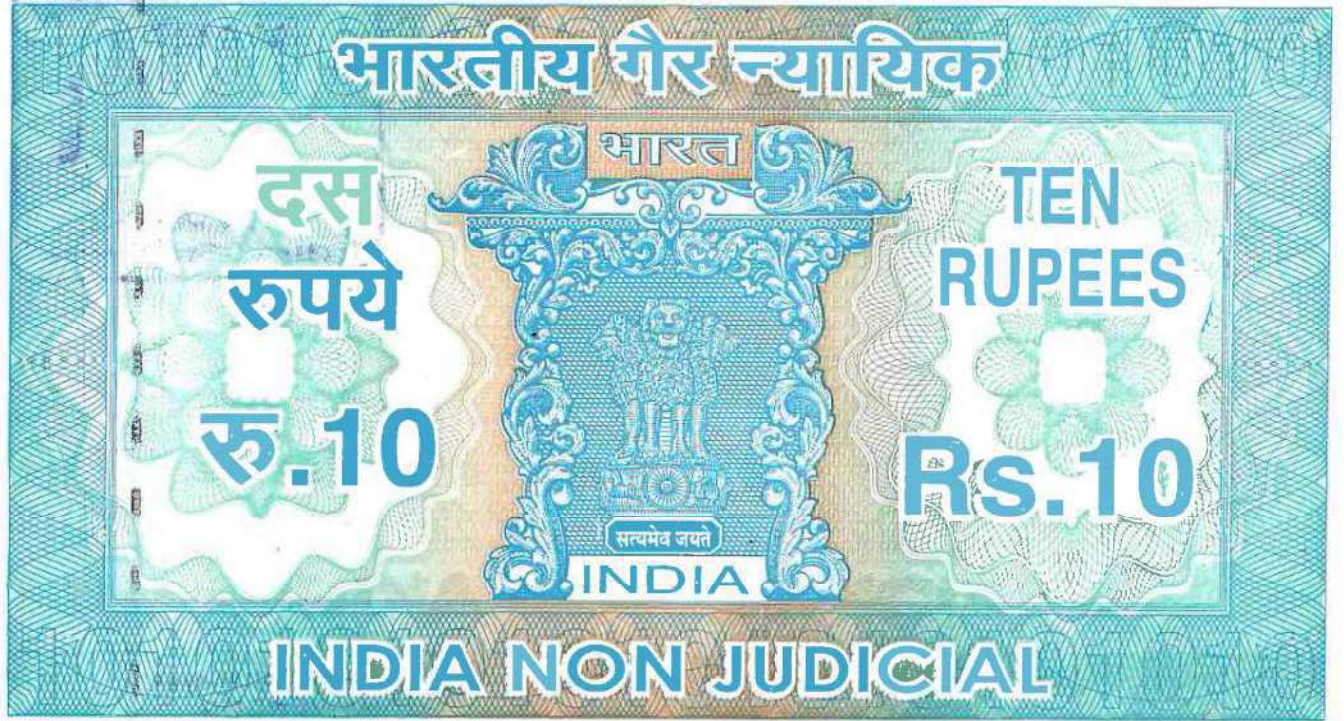
Purpose for which Water will be supplied	Volume of water	Period of supply	The Place at which it will be Supplied.
(1)	(2)	(3)	(4)
For Industrial purpose	0.20Cusecs from Ground Water	For 1(One) Year w.e.f 15.07.2020	To be drawn from ground water source inside the plant premises through Three Nos. of bore well

For Ardent Steel L.t.d

Aswini Kumar Nayak  
Asst. General Manager  
(H.R and Admin)

Executive Engineer  
Baitarani Division  
SALAPADA





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50AA 155667

1. **M/s Ardent Steel Limited** shall make suitable arrangement to take the water from the Government water source at which it will be supplied. **M/s Ardent Steel Limited** shall not use the water supplied to him for any purpose other than that which is specified in the schedule
2. If the water rate/license fees for the aforesaid quantity of water or any part thereof, is not paid on or before the date specified in agreement it shall become payable at once (unless the Government sanctions for special reason an extension of time) and **M/s Ardent Steel Limited** and the sureties shall be liable jointly and severally to pay the same with compound interest at the rate of two percent *per mensem* from the date of default. All amount due to

For Ardent Steel L.t.d  
A. K. Mani Kumar Nayak  
Asst. General Manager  
(H.R and Admin)

Executive Engineer  
Bafiarani Division  
BALAPADA





ଓଡ଼ିଶା, ओडिशा ODISHA

50AA 155668

the Government under terms of these presents shall if not paid in time, be recoverable as a public demand under the Orissa Public Demands Recovery Act, 1962.

3. (i) **M/s Ardent Steel Limited** shall be liable for criminal and civil action if by drawal of water, the rights of any third party are affected and shall indemnify the Government against all claims for damage preferred by person or persons affected by the permission granted.

(ii) **M/s Ardent Steel Limited** shall not without prior permission in writing from the Government lay pipeline on Government or communal lands. If the pipe lines have to pass through Government lands permission of the Government for this shall be taken separately which may be granted subject to the protection of rights of Government or community, as the case may be.

For Ardent Steel L.t.d  
*Aswini Kumar Nayak*  
Asst. General Manager  
(H.R and Admin)

*31/3/20*  
Executive Engineer  
Bafarani Division  
KALAPADA





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50AA 155669

(iii) **M/s Ardent Steel Limited** shall not draw or lift water more than the quantity mentioned in the requisition or order and not exceeding the volume mentioned in the Schedule except with the prior approval of the Government. The Executive Engineer shall assess the fees to be charged as per Unit/quantity of water drawn or allocated whichever is higher. If drawal is more than the allocation, a penal rate at six times the rate specified in Schedule III shall be charged on the quantity of excess drawal, in addition to the normal bill on allocated quantity. The excess drawal is permissible for a maximum period of six months, within which licensee shall have to apply for a higher allocation of water with reason where the licensee fails to so apply for such higher allocation or where the licensee is refused for such higher allocation, the agreement shall be liable to cancellation and the water supplied shall be stopped thereafter.

For Ardent Steel L.t.d  
Asst. General Manager  
(H.R and Admin)

Executive Engineer  
Bargarhi Division  
BALAPADA





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50AA 155670

- (iv) The permission granted shall not be deemed to exempt **M/s Ardent Steel Limited** from liability to payment of water charges lawfully assessable at the rate as may be prescribed by Govt. from time to time.
- v) Government reserves the right to suspend or cancel the permission in case of violation of any of the covenants.
4. **M/s Ardent Steel Limited** at his own cost shall install a Flow Meter or a suitable measuring device for measurement of water drawn or lifted by him from the Govt. water source as per the procedure laid down in rule 23-A(b). The Executive Engineer shall visit the location of drawal or lifting of water, verify the quantities of water drawn or lifted by **M/s Ardent Steel Limited** and ensure such control as may be necessary for administering the drawal or lifting of water. Assessment of water rate shall be made as per the

For Ardent Steel Ltd  
Asst. General Manager  
(H.R and Admin)  
Kumar Nayak

Executive Engineer  
Bastarani Division  
BALAPADA  
21/01/22





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50AA 155671

quantity of water drawn or allocated whichever is higher. In case of any defect or non-functioning of the Flow Meter, the licensee shall bring the fact to the notice of the Executive Engineer forthwith and take appropriate steps to remove the defects in the Meter or for replacement thereof within a period of three months and in such cases the fees shall be charged on the quantity of water allocated for the said period of three months or till the defect in the Meter is removed or the Meter replaced, as the case may be whichever is earlier, and where the licensee fails to bring the defect or non-functioning of the Meter to the notice of the Executive Engineer or fails to remove the defects in the Meter or to replace the same, as the case may be, within a period of three months, the agreement shall be liable to cancellation and thereafter the water supply shall be stopped.

For Ardent Steel L.L.d

*Aswini Kumar Nayak*  
Asst. General Manager  
(H.R and Admin)

*Mr. [Signature]*  
Executive Engineer

Balharani Division

21/7/22  
BALAPADA





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50AA 155672

5. **M/s Ardent Steel Limited** shall construct full proof effluent discharge plant before commissioning of the project. For proper test of such effluent there shall be computerized testing system and **M/s Ardent Steel Limited** shall give details of effluent discharged in the natural source (in river or nala).
6. **M/s Ardent Steel Limited** would be required to pay 3 ( three ) months advance water charges in favour of Executive Engineer concerned in shape of Bank Draft or FDR duly discharged by the company as non - interest bearing security deposit and for 9 ( nine ) months a Bank Guarantee duly pledged in favour of concerned Executive Engineer. Onus of maintaining the Bank Guarantee lies with the company.
7. The drawal mechanism for raw water and disposal system of effluent to be established by the industry without disturbing existing eco system and environmental set up.

For Ardent Steel L.t.d

Asst. General Manager  
(H.R and Admin)

*Amit Kumar Nayak*

Executive Engineer  
Balurani Division  
BALAPADA

*R.P. Sahoo*





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50AA 155673

8. In case of any dispute / interpretation required, the decision of the Government in Water Resources Department shall be final.
9. The allocation of water will automatically lapse if the company does not use the water for the purpose applied for within three years of allotment.
10. The agreement shall be valid for a period of three years from the date of execution subject to the renewal of agreement by the Executive Engineer. For renewal of the agreement, the concerned drawee has to apply minimum three months before the expiry of the agreement.
11. If it is found that the industry is drawing water unauthorisedly before signing the agreement / installation of flow-meter, the Executive Engineer will charge a penal rate at six times the normal rate as provided in Schedule III of the Rule.

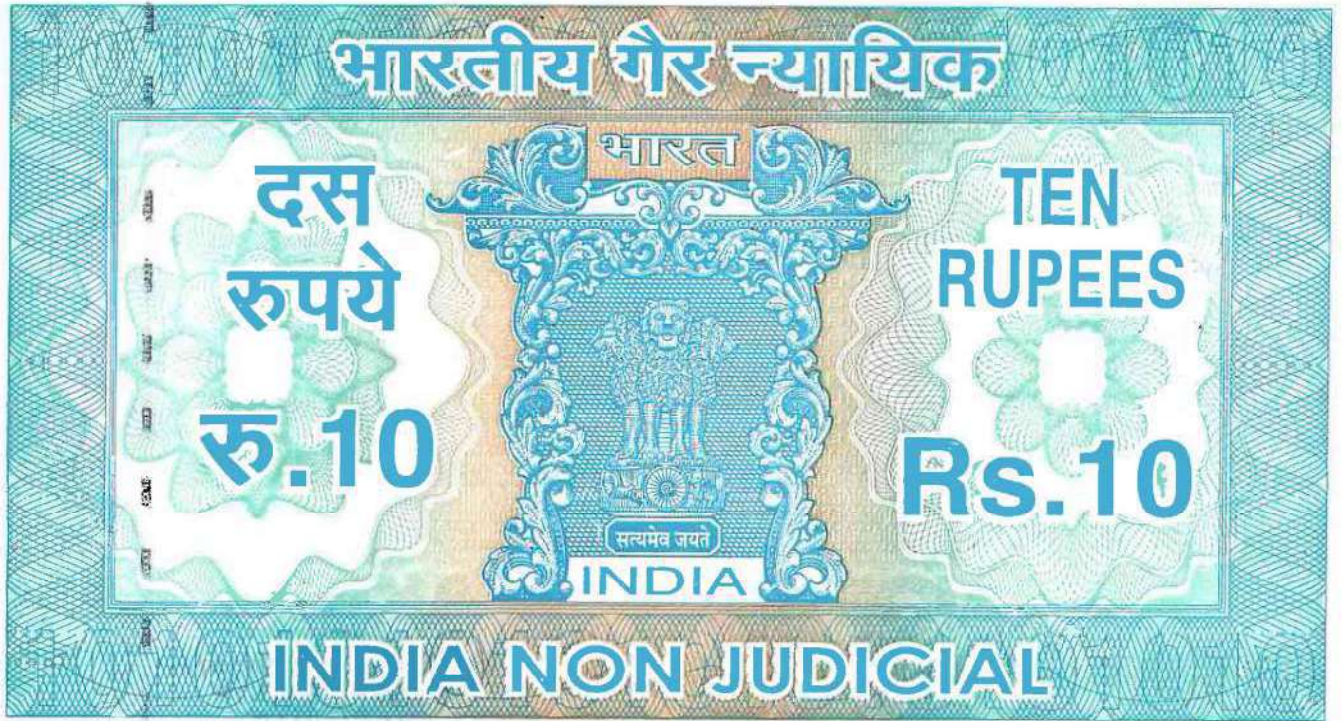
For Ardent Steel L.t.d  
Asst. General Manager  
(H.R and Admin)

Aswani Kumar Nayak

Executive Engineer  
Balfarani Division  
SALAPADA

21/3/20





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50AA 155674

12. Government shall be at liberty to review the water allocation unilaterally in case of exigencies.
13. The Executive Engineer or his authorized representative reserves the right to inspect all installations of drawal and disposal mechanism during and after construction including intake structure, flow meter and treatment plant.
14. The agreement to be executed by the Industry/ commercial establishment with local authority/ Executive Engineer must be approved by the DoWR before drawal of water.

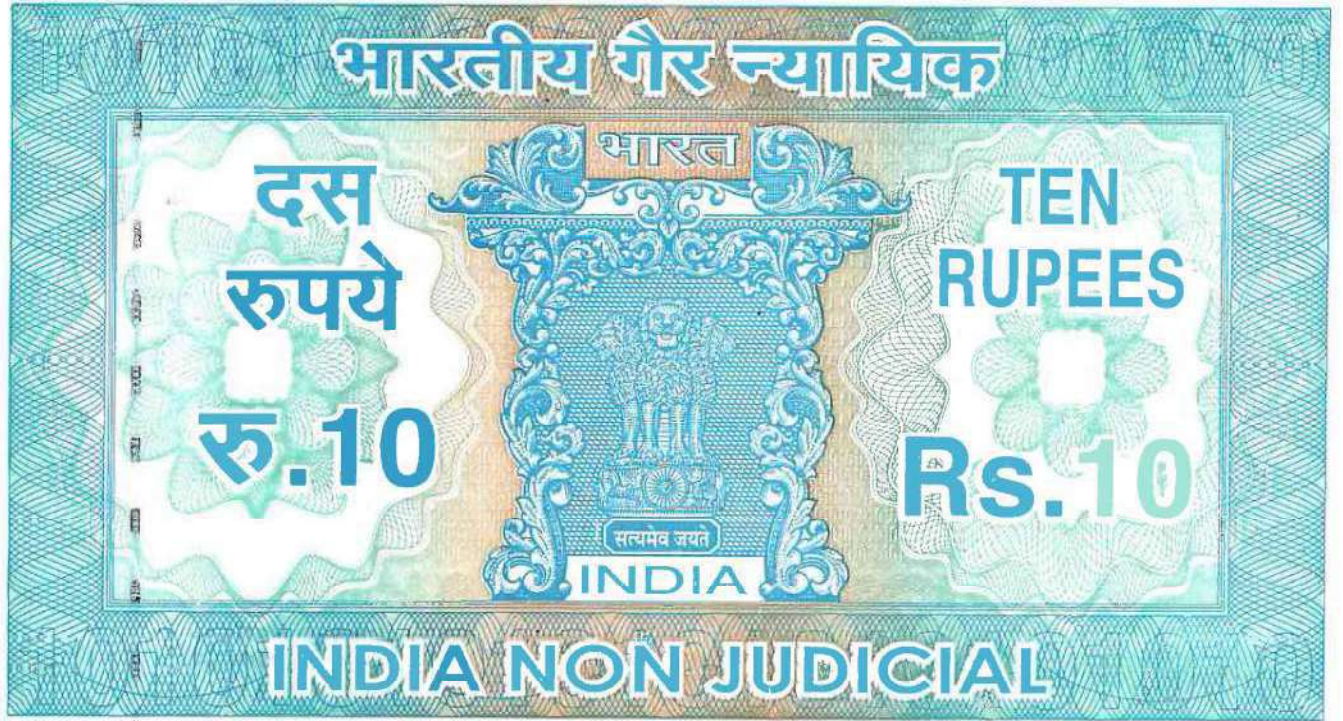
**Additional Terms & Conditions:**

15. **M/s Ardent Steel Limited** will have to adopt water harvesting, rooftop water harvesting, ground water recharge and recycling of waste water measures in its plant premises as per the approved water management plan.
16. **M/s Ardent Steel Limited** shall follow the zero effluent discharge principle and satisfy State Pollution Control Board (SPCB) norms and obtain requisite permissions from the SPCB, Odisha before drawal of operational water.

For Ardent Steel Ltd  
*Aswini Kumar Nayak*  
Asst. General Manager  
(H.R and Admin)

*Pm 21/7/20*  
Executive Engineer  
Batarani Division  
BALAPADA





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50AA 155675

17. In case, **M/s Ardent Steel Limited** intends to supply bulk water to Municipalities, Notified Area Councils, other local authorities and cluster of villages, **M/s Ardent Steel Limited** shall install separate flow meter or measuring device, as the case may be, at a suitable place along the pipe line to ensure quantum of water supplied to such Municipalities, Notified Area Councils, other local authorities and cluster of villages for drinking and washing etc. in addition to installation of the flow meter under clause 23-A (1)(b) which shall be treated as industrial or commercial use and license fee for such industrial or commercial use shall be at the rate double the existing rate as provided in item 3 (ii) of schedule-III.
18. **M/s Ardent Steel Limited** shall abide by the conditions laid down by the competent authority of DoWR during approval of scheme of drawal.
19. **M/s Ardent Steel Limited** shall make adequate arrangement for monitoring Ground Water level through installation of piezometer or through any other approved mechanism.
20. **M/s Ardent Steel Limited** shall abide by the conditions laid down in the NOC issued by CGWA and DLEC.

For Ardent Steel L.t.d.  
*Aswini Kuman Nayak*  
Asst. General Manager  
(H.R and Admin)

*P. M. S. 11/7/20*  
Executive Engineer  
Bafraoni Division  
SALAPADA





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50AA 155676

21. **M/s Ardent Steel Limited** shall undertake water utilization audit in every three years and make the report available for scrutiny by the competent authority of DoWR.
22. License fees shall be charged and collected at the rate as specified in the Schedule -III per unit or quantity of water actually drawn or allocated whichever is higher and shall be enhanced at the rate of ten percent per annum with effect from the first day of April;

In Witness whereof the parties hereto have put their hands and seals the day and year first above-written.

In the presence of witness:

*Mantu Khandu*

In the presence of witness:

For Ardent Steel Ltd  
*Aswini Kumar Nayak*  
Signature of Asst. General Manager  
(H.R and Admin)

*Dilip Kumar Paty*  
Signature of surety

*Pm 24/7/20*  
SIGNATURE OF THE EXECUTIVE ENGINEER  
for and on behalf of the Government of Odisha.

*24/7/20*  
SALAPADA





Tel : 2564033/2563924  
 EPABX : 2561909/2562847  
 E-mail: hwmd@ospboard.org /  
 paribesh1@ospboard.org  
 Website: www.ospboard.org

## STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII  
 Bhubaneswar - 751012, INDIA

**BY SPEED POST**

### FORM 2 [See rule 6(2)]

#### FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION CONTROL BOARD, ODISHA TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization: IND-IV-HW-951/ 371 and date of issue: 09-01-2019
2. Reference of application (No. and date): 1625774, dtd. 17-04-2017 / 12-04-2018.
3. **M/s Ardent Steel Limited** is hereby granted an authorization based on the enclosed signed inspection report for generation, storage, transport, reuse, recycling, recovery, preprocessing, co-processing, utilization, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated At/Po - Phuljhar, Via - Suakati, Dist - Keonjhar, Odisha.

#### Details of Authorization

Sl. No.	Category of Hazardous Waste as per the Schedules I, II and III of these Rules	Waste Description	Quantity	Mode of Disposal
1.	Schedules - I Stream - 5.1	Used /Spent Oil	0.75 KL/A	Storage in containers over concrete floor under well ventilated covered shed followed by sale to actual users having valid authorisation from SPCB, Odisha
2.	Schedules - I Stream - 5.2	Oily sludge & Waste Containing Oil	0.35/A	Storage in impervious pits / containers under well ventilated covered shed followed disposal in the Authorized HW incinerator/ Common Hazardous Waste Treatment Storage Disposal Facility (CHWTSDF), Jajpur
3.	Schedules - I Stream - 35.2	Spent Resin	0.8 T/A	Storage in impervious pits / containers under covered shed followed by final disposal in Authorized HW incinerator / CHWTSDF, Jajpur

- (1) The authorization shall be valid up to 31-03-2022.
- (2) The authorization is subject to the following general and specific conditions.



#### **A. General Conditions of authorisation:**

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorisation.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire, etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty". Any accident in this respect shall be intimated to the Board immediately.
7. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
8. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
9. An application for the renewal of an authorisation shall be made as laid down under these Rules.
10. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
11. Annual return shall be filed by 30<sup>th</sup> day of June of every year for the preceding period from April to March.

#### **B. Specific Conditions:**

1. Authorization granted herewith does not relieve you in complying with other provision laid down under Water (PCP) Act, 1974, Air (PCP) Act, 1981 and Environment (Protection) Act, 1986, and the Rules made there under.
2. This authorization is subject to statutory and other clearances from Govt. of Odisha and / or Govt. of India as and when applicable.
3. In case the quantity of generation of hazardous Waste exceeds the Authorized quantity, the industry / mine shall apply for amendment of Authorization order.
4. The industry / mine shall strictly comply to the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and amendments made thereafter.
5. Annual returns in Form - 4 (See Rules- 6 (5), 13 (8), 16 (6) & 20 (2)) shall be submitted to the Board for the financial year by 30<sup>th</sup> June of every year. It shall contain the detail quantities of generation, storage and disposal of different type of hazardous wastes such as recyclable, incinerable, land disposable.
6. Steps shall be taken for reduction and prevention of the hazardous waste generated or for recycling or reuse.
7. Environmental Information (M) ... to Air, Water, Hazardous Waste and Hazardous



8. The transport of the hazardous and other waste shall be in accordance with the provisions of the Rule, 2016 and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard.
9. The occupier shall provide the transporter with the relevant information in Form 9, regarding the hazardous nature of the wastes and measures to be taken in case of an emergency and shall label the hazardous and other wastes containers as per Form 8.
10. In case of transportation of hazardous waste and other wastes for recycling or utilization including co-processing to outside the state, the sender shall intimate both the State Pollution Control Boards before handing over the waste to the transporter.
11. Manifest system (Movement document) shall be strictly followed as per Rule-19 and to be submitted to this office as per the Rule. The industry / mine shall check the authenticity of the way bill of the transport vehicle to ensure supply of hazardous waste to the authorized destination.
12. The hazardous waste shall be sold if required only to Actual User having valid authorization from the State Pollution Control Board, Odisha and concerned SPC Board. Details of such wastes shall be entered in the passbook issued by respective SPCB.
13. All the hazardous waste shall be stored in impervious pits / containers / floors under cover shed with adequate capacity having spill containment facility. The spilled hazardous waste shall be re-collected and stored in impervious pits / containers / floors under cover shed prior to sale / disposal.
14. The schedule of hazardous waste and the quantity as specified shall only be disposed off as per the stipulation prescribed in this authorisation.
15. This authorization does not permit you to either receive and process or generate hazardous waste in case validity of Consent to Operate of your industry / mine ceases. However you can carry out handling, storage, treatment, transport and disposal of hazardous waste and other wastes generated previously during such period to avoid accumulation of hazardous waste.
16. The industry / mine shall store the accumulated hazardous waste for a period not exceeding 90 days and shall dispose as per the stipulation prescribed in this authorisation order. In case of any violation, authorization granted shall be suspended / cancelled.
17. The industry / mine shall apply for renewal of authorization in Form-1, 120 days before expiry of this authorization order enclosing Annual Return in Form-4, Manifest copies in Form -10 and compliance to the conditions stipulated in this order along with adequate processing fees.
18. In case of transportation of hazardous and other waste, the responsibility of safe transport shall be either of the sender or the receiver whosoever arranges the transport and has the necessary authorisation for transport from the concerned State Pollution Control Board. This responsibility should be clearly indicated in the manifest.

Member Secretary

To

The Director  
M/s Ardent Steel Limited  
At/Po- Phuljhar, Via- Suakati,  
Dist- Keonjhar, Odisha

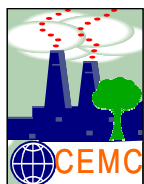
Memo No. 372

Dt. 09-01-2019

Copy to the

1. Collector & District Magistrate, Keonjhar.
2. Director, Factories & Boilers, Odisha, Bhubaneswar.
3. Regional Officer, State Pollution Control Board, Odisha, Keonjhar.
4. Guard file.

Chief Environmental Engineer



# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001-2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha  
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) & CWLW, Odisha  
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)  
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Reference No : CEMC/ASL/ Jun -F-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Fugitive Air  
Date of Monitoring : 11.06.2020  
Date of Receiving : 12.06.2020  
Date of Analysis : 12.06.2020  
Sample Collected by : Mr.B Samantaray

## FUGITIVE EMISSION TEST REPORT

Sl. No.	LOCATION	RESULT	
		RSPM ( $\mu\text{g}/\text{m}^3$ )	SPM ( $\mu\text{g}/\text{m}^3$ )
1	Proportioning System (Ash & Coke Fines Bunker)	328	1120
2	Raw Material Transfer point of Mixture (Mixture Building)	310	998
3	Ball Mill (Cool Grinding)	320	1082
4	Ball Mill (Flux & Coke Grinding)	315	1098
5	Finished Product Transfer points and plant de-dusting system	301	1092
6	Travelling Grate & Rotary Kiln	330	1002
<b>MoEF Standard for SPM</b>		--	<b>2000*</b>

\* The standard is applicable at 10 m distance from the source

  
Authorized Signatory

Notes:

- The results relate only to the sample tested.
- This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.



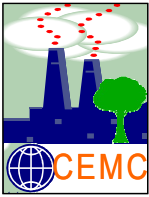
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Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: 1<sup>st</sup> Floor, N-5/305, IRC village, Nayapalli, Bhubaneswar-751015, Odisha, India, Mobile: 9861032826  
E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: cemc122@gmail.com, Mobile: 9861032826, 9861032826



# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)  
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Reference No : CEMC/ASL/ Jul -F-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Fugitive Air  
Date of Monitoring : 13.07.2020  
Date of Receiving : 14.07.2020  
Date of Analysis : 14.07.2020  
Sample Collected by : Mr.B Samantaray

## FUGITIVE EMISSION TEST REPORT

Sl. No.	LOCATION	RESULT	
		RSPM ( $\mu\text{g}/\text{m}^3$ )	SPM ( $\mu\text{g}/\text{m}^3$ )
1	Proportioning System (Ash & Coke Fines Bunker)	318	1010
2	Raw Material Transfer point of Mixture (Mixture Building)	296	990
3	Ball Mill (Cool Grinding)	300	1065
4	Ball Mill (Flux & Coke Grinding)	305	1088
5	Finished Product Transfer points and plant de-dusting system	280	1032
6	Travelling Grate & Rotary Kiln	310	985
<b>MoEF Standard for SPM</b>		--	<b>2000*</b>

\* The standard is applicable at 10 m distance from the source

Authorized Signatory

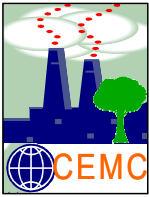
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# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

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Reference No : CEMC/ASL/ Aug -F-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Fugitive Air  
Date of Monitoring : 11.08.2020  
Date of Receiving : 12.08.2020  
Date of Analysis : 12.08.2020  
Sample Collected by : Mr.B Samantaray

## FUGITIVE EMISSION TEST REPORT

Sl. No.	LOCATION	RESULT	
		RSPM ( $\mu\text{g}/\text{m}^3$ )	SPM ( $\mu\text{g}/\text{m}^3$ )
1	Proportioning System (Ash & Coke Fines Bunker)	307	998
2	Raw Material Transfer point of Mixture (Mixture Building)	292	980
3	Ball Mill (Cool Grinding)	290	1050
4	Ball Mill (Flux & Coke Grinding)	300	1000
5	Finished Product Transfer points and plant de-dusting system	275	1028
6	Travelling Grate & Rotary Kiln	300	970
<b>MoEF Standard for SPM</b>		--	<b>2000*</b>

\* The standard is applicable at 10 m distance from the source

*MRout*

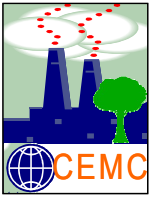
Authorized Signatory

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Seal of Laboratory



# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

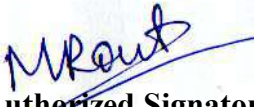
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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Reference No : CEMC/ASL/ Sept -F-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Fugitive Air  
Date of Monitoring : 14.09.2020  
Date of Receiving : 15.09.2020  
Date of Analysis : 15.09.2020  
Sample Collected by : Mr.B Samantaray

## FUGITIVE EMISSION TEST REPORT

Sl. No.	LOCATION	RESULT	
		RSPM ( $\mu\text{g}/\text{m}^3$ )	SPM ( $\mu\text{g}/\text{m}^3$ )
1	Proportioning System (Ash & Coke Fines Bunker)	300	990
2	Raw Material Transfer point of Mixture (Mixture Building)	282	965
3	Ball Mill (Cool Grinding)	284	1038
4	Ball Mill (Flux & Coke Grinding)	290	988
5	Finished Product Transfer points and plant de-dusting system	270	1016
6	Travelling Grate & Rotary Kiln	292	968
<b>MoEF Standard for SPM</b>		--	<b>2000*</b>

\* The standard is applicable at 10 m distance from the source

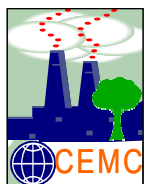
  
**Authorized Signatory**

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**Seal of Laboratory**



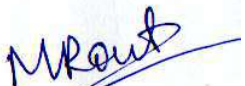
# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001-2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCCB of Govt. of Odisha  
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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)  
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Reference No : CEMC/ASL/ Jun -A-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Ambient Air  
Date of Monitoring : 11.06.2020  
Date of Receiving : 12.06.2020  
Date of Analysis : 12.06.2020  
Sample Collected by : Mr.B Samantaray

## AMBIENT AIR QUALITY TEST REPORT (24 HOURLY AVERAGE)

Sl. No.	LOCATION	MONITORING REPORT					
		PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )	NH <sub>3</sub> ( $\mu\text{g}/\text{m}^3$ )
1	At the boundary near the water harvesting pond (East Direction)	71.8	38.8	11.6	17.2	0.5	<20
2	At the Boundary near ESP (South Direction)	67.8	36.5	11.7	16.1	0.5	<20
3	At the Boundary near Coal Fines Stock yard (North Direction)	71.3	37.8	12.4	17.1	0.5	<20
4	Near Ball mill, Iron ore fines stock yard	72.8	38.9	11.9	14.8	0.4	<20
<b>NAAQ Standard</b>		<b>100</b> ( $\mu\text{g}/\text{m}^3$ )	<b>60</b> ( $\mu\text{g}/\text{m}^3$ )	<b>80</b> ( $\mu\text{g}/\text{m}^3$ )	<b>80</b> ( $\mu\text{g}/\text{m}^3$ )	<b>4.0</b> ( $\text{mg}/\text{m}^3$ )	<b>400</b> ( $\mu\text{g}/\text{m}^3$ )

  
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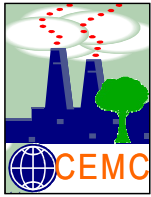
Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: 1<sup>st</sup> Floor, N-5/305, IRC village, Nayapalli, Bhubaneswar-751015, Odisha, India, Mobile: 9861032826  
E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: cemc122@gmail.com, Mobile: 9861032826, 9861032826





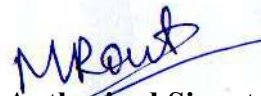
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Reference No : **CEMC/ASL/ Jul -A-06/20**  
 Name of Company : **Ardent Steel Ltd.**  
 Sample Description : **Ambient Air**  
 Date of Monitoring : **13.07.2020**  
 Date of Receiving : **14.07.2020**  
 Date of Analysis : **14.07.2020**  
 Sample Collected by : **Mr.B Samantaray**

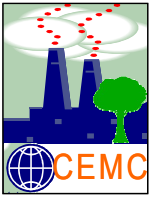
## AMBIENT AIR QUALITY TEST REPORT (24 HOURLY AVERAGE)

Sl. No.	LOCATION	MONITORING REPORT					
		PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	NH <sub>3</sub> (µg/m <sup>3</sup> )
1	At the boundary near the water harvesting pond (East Direction)	70.2	37.6	11.2	17.0	0.5	<20
2	At the Boundary near ESP (South Direction)	66.0	35.2	11.5	15.8	0.5	<20
3	At the Boundary near Coal Fines Stock yard (North Direction)	70.2	36.7	12.2	16.9	0.5	<20
4	Near Ball mill, Iron ore fines stock yard	70.4	36.4	10.6	14.2	0.5	<20
<b>NAAQ Standard</b>		<b>100</b> (µg/m <sup>3</sup> )	<b>60</b> (µg/m <sup>3</sup> )	<b>80</b> (µg/m <sup>3</sup> )	<b>80</b> (µg/m <sup>3</sup> )	<b>4.0</b> (mg/m <sup>3</sup> )	<b>400</b> (µg/m <sup>3</sup> )

  
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Reference No	:	CEMC/ASL/ Aug -A-06/20
Name of Company	:	Ardent Steel Ltd.
Sample Description	:	Ambient Air
Date of Monitoring	:	11.08.2020
Date of Receiving	:	12.08.2020
Date of Analysis	:	12.08.2020
Sample Collected by	:	Mr.B Samantaray

## AMBIENT AIR QUALITY TEST REPORT (24 HOURLY AVERAGE)

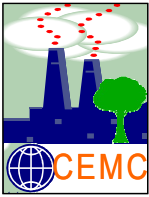
Sl. No.	LOCATION	MONITORING REPORT					
		PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	NH <sub>3</sub> (µg/m <sup>3</sup> )
1	At the boundary near the water harvesting pond (East Direction)	68.6	36.2	11.0	16.8	0.5	<20
2	At the Boundary near ESP (South Direction)	64.8	34.0	11.2	15.6	0.5	<20
3	At the Boundary near Coal Fines Stock yard (North Direction)	68.8	35.4	12.0	16.4	0.4	<20
4	Near Ball mill, Iron ore fines stock yard	69.2	35.6	10.2	14.0	0.5	<20
<b>NAAQ Standard</b>		<b>100</b> (µg/m <sup>3</sup> )	<b>60</b> (µg/m <sup>3</sup> )	<b>80</b> (µg/m <sup>3</sup> )	<b>80</b> (µg/m <sup>3</sup> )	<b>4.0</b> (mg/m <sup>3</sup> )	<b>400</b> (µg/m <sup>3</sup> )

M. Prasad

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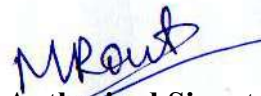
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Reference No : CEMC/ASL/ Sept -A-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Ambient Air  
Date of Monitoring : 14.09.2020  
Date of Receiving : 15.09.2020  
Date of Analysis : 15.09.2020  
Sample Collected by : Mr.B Samantaray

## AMBIENT AIR QUALITY TEST REPORT (24 HOURLY AVERAGE)

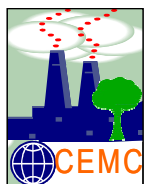
Sl. No.	LOCATION	MONITORING REPORT					
		PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )	NH <sub>3</sub> ( $\mu\text{g}/\text{m}^3$ )
1	At the boundary near the water harvesting pond (East Direction)	66.8	35.0	10.8	16.4	0.5	<20
2	At the Boundary near ESP (South Direction)	62.4	33.5	11.1	15.2	0.5	<20
3	At the Boundary near Coal Fines Stock yard (North Direction)	66.2	34.4	11.7	16.2	0.4	<20
4	Near Ball mill, Iron ore fines stock yard	67.6	33.8	10.0	13.6	0.5	<20
<b>NAAQ Standard</b>		<b>100</b> ( $\mu\text{g}/\text{m}^3$ )	<b>60</b> ( $\mu\text{g}/\text{m}^3$ )	<b>80</b> ( $\mu\text{g}/\text{m}^3$ )	<b>80</b> ( $\mu\text{g}/\text{m}^3$ )	<b>4.0</b> ( $\text{mg}/\text{m}^3$ )	<b>400</b> ( $\mu\text{g}/\text{m}^3$ )

  
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Reference No : CEMC/ASL/ Jun -ST-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Stack Monitoring  
Date of Monitoring : 11.06.2020  
Sample Collected by : Mr.B Samantaray  
Stack Height : 30m

## STACK EMISSION REPORT

Sl. No.	Location of Sampling	Flue Gas Temp. in K	Concentration of Particulate Matter (PM) in mg/Nm <sup>3</sup>
			Result
01	ESP	396	48.2

*Mr. B. Samantaray*

Authorized Signatory

Notes:



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E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: cemc122@gmail.com, Mobile: 9861032826, 9861032826



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Reference No : CEMC/ASL/ Jul -ST-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Stack Monitoring  
Date of Monitoring : 13.07.2020  
Sample Collected by : Mr.B Samantaray  
Stack Height : 30m

## STACK EMISSION REPORT

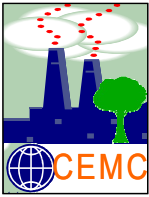
Sl. No.	Location of Sampling	Flue Gas Temp. in K	Concentration of Particulate Matter (PM) in mg/Nm <sup>3</sup>
			Result
01	ESP	390	46.8

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Reference No : CEMC/ASL/ Aug -ST-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Stack Monitoring  
Date of Monitoring : 11.08.2020  
Sample Collected by : Mr.B Samantaray  
Stack Height : 30m

## STACK EMISSION REPORT

Sl. No.	Location of Sampling	Flue Gas Temp. in K	Concentration of Particulate Matter (PM) in mg/Nm <sup>3</sup>
			Result
01	ESP	378	47.0

*MRout*

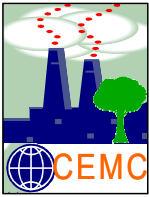
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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Reference No : CEMC/ASL/ Sept -ST-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Stack Monitoring  
Date of Monitoring : 14.09.2020  
Sample Collected by : Mr.B Samantaray  
Stack Height : 30m

## STACK EMISSION REPORT

Sl. No.	Location of Sampling	Flue Gas Temp. in K	Concentration of Particulate Matter (PM) in mg/Nm <sup>3</sup>
			Result
01	ESP	368	48.2

Authorized Signatory  
Notes:



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**Technical due diligence of existing Pollution Control equipment:**

**EXISTING AIR POLLUTION CONTROL EQUIPMENTS**

BAG FILTER DETAILS								
SL	LOCATION	MATERIAL OF HANDLING	TYPE OF BAG FILETR	CAPACITY	NO OF BAGS	BAG SIZE	DESIGN MAX INLET DUST LOAD gm/m3	OUT LET DUST EMISSION MG/M3
1	PROPERTION BUILDING	COAL	INSERTABLE TYPE	3000 M3/HR	20	1500X475X25	10	50
2	PROPERTION BUILDING	BENTONITE	INSERTABLE TYPE	5000 M3/HR	30	1500X475X25	10	50
3	PROPERTION BUILDING	ASH	INSERTABLE TYPE	5000 M3/HR	30	1500X475X25	10	50
4	PROPERTION BUILDING	MIXTURE OF COAL BENTONITE & ASH	STAND ALONE TYPE	8000 M3/HR	60	φ150 X 3650 MM	10	50
5	MIXTURE BUILDING	MIXTURE OF COAL BENTONITE & ASH	STAND ALONE TYPE	4000 M3/HR	54	φ150 X 2050 MM	10	50
6	COALMILL	PULVURISED COAL	STAND ALONE TYPE	15000 M3/HR	144	φ150 X 3650 MM	10	50

1. Capacity of Bag Filters as per the manufacturer is Rated: 40000 m3/hr.
2. Generation of Bag Filter dust at present is 6 TPD = 6 TPD / 24 hours.. 0.25 TPH.
3. Bag Filter dust collection as per the supplier is 10 gms. Per m3 / hr which is equal to 10 x 40000 m3/hr = 400000 gms. = 400 kg = 0.4 TPH .
4. As per existing 0.4 TPH dust load available capacities of all the bag filters , the present capacity in use is 0.25 TPH.

**DUST LOAD AVAILABLE FOR CAPACITY ENHANCEMENT IN BAG FILTERS**

SL	LOCATION & MATERIAL HANDLING	CAPACITY	DESIGN MAX INLET DUST LOAD IN GM/M3	OUT LET DUST EMISSION IN MG/M3	MAXIMUM INLET DUST LOAD IN KG /HR	OUT LET DUST EMISSION IN KG /HR	PRESENT DUSTGENERATION IN KG / HR	DUST LOAD AVAILABLE FOR EXPANSION IN KG/HR
1	PROPERTION BUILDING (COAL)	3000 M3/HR	10	50	30	0.15	21	8.88
2	PROPERTION BUILDING (BENTINITE)	5000 M3/HR	10	50	50	0.25	32	17.75
3	PROPERTION BUILDING (ASH)	5000 M3/HR	10	50	50	0.25	37	12.75
4	PROPERTION BUILDING (MIXTURE OF COAL BENTONITE & ASH)	8000 M3/HR	10	50	80	0.4	48	31.6
5	MIXTURE BUILDING (MIXTURE OF COAL BENTONITE & ASH)	4000 M3/HR	10	50	40	0.2	30	9.8
6	COALMILL (PULVURISED COAL)	15000 M3/HR	10	50	150	0.75	82	67.25



### Technical specification of the existing ESP

Design Data of ESP						Design Data of I.D. Fan		
Inlet dust content	Out let dust content	Inlet gas temp.	Rated gas volume	Design gas volume	Gas pressure	Rated capacity	Pressure	Temp.
(gm/m <sup>3</sup> )	(mg/m <sup>3</sup> )	°C	m <sup>3</sup> /hr	m <sup>3</sup> /hr	mm of W.C.	m <sup>3</sup> /hr	mm of W.C.	°C
05-10	50	120-200	450000	600000	600	450000	500	200

### Details of Stack height in Pollution Control Equipments

Parameter	Grate Kiln	RMH Unit	Proportioning System	Ball Mill	Coke Grinding Section
No. of Stack	1	1	1	1	1
Height (m)	52	30	30	30	30



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Reference No : CEMC/ASL/Jun -GW-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Ground Water  
Date of Monitoring : 11.06.2020  
Date of Receiving : 12.06.2020  
Date of Analysis : 12.06.2020  
Sample Collected by : Mr.B Samantaray  
Sample Location : Canteen(RO Water)

## GROUND WATER TEST REPORT

Sl. No	Parameter	Unit	Desired Limit of drinking water (BIS:10500:2012)	Permissible Limit of drinking water (BIS:10500:2012)	Result
1	Colour	Hazen	5	15	<5
2	Odour	-	Agreeable	Agreeable	AL
3	Taste	-	Agreeable	-	AL
4	Turbidity	NTU	1	5	<1
5	pH Value @ 25°C	-	6.5-8.5	No Relaxation	6.52
6	Total Dissolved Solid	mg/l	500	2000	82
7	Alkalinity as CaCO <sub>3</sub>	mg/l	200	600	38
8	Total Hardness as CaCO <sub>3</sub>	mg/l	200	600	32
9	Iron as Fe	mg/l	0.3	No Relaxation	0.09
10	Nitrate as NO <sub>3</sub> <sup>-</sup> -N	mg/l	45	No Relaxation	0.32
11	Sulphate as SO <sub>4</sub>	mg/l	200	400	1.42
12	Fluoride as F	mg/l	1.0	1.5	<0.05
13	Calcium as Ca	mg/l	75	200	9.22
14	Chloride as Cl <sup>-</sup>	mg/l	250	1000	2.9

N.B: AL – Agreeable

*Mr. B. Samantaray*

Authorized Signatory

Notes:

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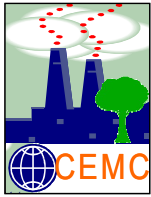


Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: 1<sup>st</sup> Floor, N-5/305, IRC village, Nayapalli, Bhubaneswar-751015, Odisha, India, Mobile: 9861032826  
E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: cemc122@gmail.com, Mobile: 9861032826, 9861032826



# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.


An ISO 9001-2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) & CWLW, Odisha Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India) MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Reference No : **CEMC/ASL/Jul -GW-06/20**  
 Name of Company : **Ardent Steel Ltd.**  
 Sample Description : **Ground Water**  
 Date of Monitoring : **13.07.2020**  
 Date of Receiving : **14.07.2020**  
 Date of Analysis : **14.07.2020**  
 Sample Collected by : **Mr.B Samantaray**  
 Sample Location : **Canteen(RO Water)**

## GROUND WATER TEST REPORT

Sl. No	Parameter	Unit	Desired Limit of drinking water (BIS:10500:2012)	Permissible Limit of drinking water (BIS:10500:2012)	Result
1	Colour	Hazen	5	15	<5
2	Odour	-	Agreeable	Agreeable	AL
3	Taste	-	Agreeable	-	AL
4	Turbidity	NTU	1	5	<1
5	pH Value @ 25°C	-	6.5-8.5	No Relaxation	6.50
6	Total Dissolved Solid	mg/l	500	2000	78
7	Alkalinity as CaCO <sub>3</sub>	mg/l	200	600	30
8	Total Hardness as CaCO <sub>3</sub>	mg/l	200	600	36
9	Iron as Fe	mg/l	0.3	No Relaxation	0.08
10	Nitrate as NO <sub>3</sub> <sup>-</sup> -N	mg/l	45	No Relaxation	0.42
11	Sulphate as SO <sub>4</sub>	mg/l	200	400	1.22
12	Fluoride as F	mg/l	1.0	1.5	<0.05
13	Calcium as Ca	mg/l	75	200	10.2
14	Chloride as Cl <sup>-</sup>	mg/l	250	1000	3.9

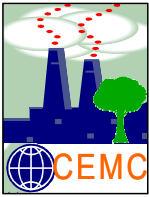
N.B: AL – Agreeable

  
**Authorized Signatory**  
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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)  
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Reference No	:	CEMC/ASL/Aug -GW-06/20
Name of Company	:	Ardent Steel Ltd.
Sample Description	:	Ground Water
Date of Monitoring	:	11.08.2020
Date of Receiving	:	12.08.2020
Date of Analysis	:	12.08.2020
Sample Collected by	:	Mr.B Samantaray
Sample Location	:	Canteen(RO Water)

## GROUND WATER TEST REPORT

Sl. No	Parameter	Unit	Desired Limit of drinking water (BIS:10500:2012)	Permissible Limit of drinking water (BIS:10500:2012)	Result
1	Colour	Hazen	5	15	<5
2	Odour	-	Agreeable	Agreeable	AL
3	Taste	-	Agreeable	-	AL
4	Turbidity	NTU	1	5	<1
5	pH Value @ 25°C	-	6.5-8.5	No Relaxation	6.53
6	Total Dissolved Solid	mg/l	500	2000	70
7	Alkalinity as CaCO <sub>3</sub>	mg/l	200	600	32
8	Total Hardness as CaCO <sub>3</sub>	mg/l	200	600	30
9	Iron as Fe	mg/l	0.3	No Relaxation	0.07
10	Nitrate as NO <sub>3</sub> <sup>-</sup> -N	mg/l	45	No Relaxation	0.52
11	Sulphate as SO <sub>4</sub>	mg/l	200	400	1.12
12	Fluoride as F	mg/l	1.0	1.5	<0.05
13	Calcium as Ca	mg/l	75	200	9.8
14	Chloride as Cl <sup>-</sup>	mg/l	250	1000	3.6

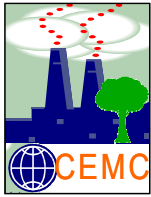
N.B: AL – Agreeable

Mr. B. Samantaray

**Authorized Signatory**  
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Reference No : CEMC/ASL/Sept -GW-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Ground Water  
Date of Monitoring : 14.09.2020  
Date of Receiving : 15.09.2020  
Date of Analysis : 15.09.2020  
Sample Collected by : Mr.B Samantaray  
Sample Location : Canteen(RO Water)

## GROUND WATER TEST REPORT

Sl. No	Parameter	Unit	Desired Limit of drinking water (BIS:10500:2012)	Permissible Limit of drinking water (BIS:10500:2012)	Result
1	Colour	Hazen	5	15	<5
2	Odour	-	Agreeable	Agreeable	AL
3	Taste	-	Agreeable	-	AL
4	Turbidity	NTU	1	5	<1
5	pH Value @ 25°C	-	6.5-8.5	No Relaxation	6.56
6	Total Dissolved Solid	mg/l	500	2000	60
7	Alkalinity as CaCO <sub>3</sub>	mg/l	200	600	28
8	Total Hardness as CaCO <sub>3</sub>	mg/l	200	600	26
9	Iron as Fe	mg/l	0.3	No Relaxation	0.05
10	Nitrate as NO <sub>3</sub> <sup>-</sup> -N	mg/l	45	No Relaxation	0.46
11	Sulphate as SO <sub>4</sub>	mg/l	200	400	1.22
12	Fluoride as F	mg/l	1.0	1.5	<0.05
13	Calcium as Ca	mg/l	75	200	8.4
14	Chloride as Cl <sup>-</sup>	mg/l	250	1000	3.2

N.B: AL – Agreeable

Authorized Signatory

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Seal of Laboratory



## GOVERNMENT OF ODISHA

**CERTIFICATE OF VERIFICATION**

(See Rule 16 (3) Schedule – VIII of the Odisha Legal Metrology (Enforcement) Rules, 2011 )

Office of the Legal Metrology Officer **KEONJHAR**, Camp/Place **Phuljhar,Keonjhar**Name of Legal Metrology Officer **Sri. Rabindra Kumar Mohapatra** No. **OR-335**I here by certify that I have this day verified and **STAMPED** the under mentioned weights, measures, etc., belonging to **Ardent Steel Limited (Ardent Steel Limited)** Locality **Vill Phuljhar, Via Suakati, Keonjhar, Odisha - 758085**, Name of the trade **Other**

Quantity	Denomination	Weighing instruments	Measuring instruments	Verification fees	Carriage, Conveyance,
1	Flow Meter, Capacity (Max) : 800 liter/min , Make : ADDMAS , Model No. : S50E0L0P0F0C000ML , SL No. : FE-4160-SK Addl Fee R17(2) : Rs.0.00, Addl Fee R17(3) : Rs.0.00			5000.00	2000.00
SEALING POINT-ONE(LEAD AND WIRE).					

[ In the case of rejected weights, measures, etc. the Legal Metrology Officer shall give separate Certificate of rejection mentioning the reasons of rejection against each item ]

Total Rs. **7000.00** deposited vide T. Receipt / Money Receipt No. **2ECDFBEFD7** dated **Sat Oct 24**Repaired by / Used by **M/S WEIGHMAX WEIGHING SYSTEM** (Signature)NEXT VERIFICATION DUE ON **06-Nov-2021**

Signature Not Verified

Digitally signed by **RABINDRA KUMAR MOHAPATRA**

Date: 2020.11.07 20:54:50 IST

Legal Metrology Officer , KEONJHAR





No. : KJR20D1073

Date: 06-Nov-2020

GOVERNMENT OF ODISHA

**CERTIFICATE OF VERIFICATION**

(See Rule 16 (3) Schedule – VIII of the Odisha Legal Metrology (Enforcement) Rules, 2011 )

Office of the Legal Metrology Officer **KEONJHAR**, Camp/Place **Phuljhar,Keonjhar**

Name of Legal Metrology Officer **Sri. Rabindra Kumar Mohapatra** No. **OR-335**

I here by certify that I have this day verified and **STAMPED** the under mentioned weights, measures, etc., belonging to **Ardent Steel Limited (Ardent Steel Limited)** Locality **Vill Phuljhar, Via Suakati, Keonjhar, Odisha - 758085**, Name of the trade **Other**

Quantity	Denomination	Weighing instruments	Measuring instruments	Verification fees	Carriage, Conveyance,
1	Flow Meter, Capacity (Max) : 800 liter/min , Make : ADDMAS , Model No. : S50E0L0P0F0C000ML , SL No. : FE-4161-SK Addl Fee R17(2) : Rs.0.00, Addl Fee R17(3) : Rs.0.00			5000.00	2000.00
SEALING POINT-ONE (LEAD AND WIRE)					

[ In the case of rejected weights, measures, etc. the Legal Metrology Officer shall give separate Certificate of rejection mentioning the reasons of rejection against each item ]

Total Rs. **7000.00** deposited vide T. Receipt / Money Receipt No. **2ECDFBEFD7** dated **Sat Oct 24**

Repaired by / Used by **M/S WEIGHMAX WEIGHING SYSTEM** (Signature)

NEXT VERIFICATION DUE ON **06-Nov-2021**

Signature Not Verified

Digitally signed by **RABINDRA KUMAR MOHAPATRA**  
Date: 2020.11.07 20:55:03 IST

Legal Metrology Officer , KEONJHAR



No. : KJR20D1071

Date: 06-Nov-2020

GOVERNMENT OF ODISHA

**CERTIFICATE OF VERIFICATION**

(See Rule 16 (3) Schedule – VIII of the Odisha Legal Metrology (Enforcement) Rules, 2011 )

Office of the Legal Metrology Officer **KEONJHAR**, Camp/Place **Phuljhar,Keonjhar**

Name of Legal Metrology Officer **Sri. Rabindra Kumar Mohapatra** No. **OR-335**

I here by certify that I have this day verified and **STAMPED** the under mentioned weights, measures, etc., belonging to **Ardent Steel Limited (Ardent Steel Limited)** Locality **Vill Phuljhar, Via Suakati, Keonjhar, Odisha - 758085**, Name of the trade **Other**

Quantity	Denomination	Weighing instruments	Measuring instruments	Verification fees	Carriage, Conveyance,
1	Flow Meter, Capacity (Max) : 800 liter/min , Make : ADDMAS , Model No. : S50E0LOPOFOCOO0ML , SL No. : FE-4162-SK Addl Fee R17(2) : Rs.0.00, Addl Fee R17(3) : Rs.0.00			5000.00	2000.00
SEALING POINT-ONE(LEAD AND WIRE)					

[ In the case of rejected weights, measures, etc. the Legal Metrology Officer shall give separate Certificate of rejection mentioning the reasons of rejection against each item ]

Total Rs. **7000.00** deposited vide T. Receipt / Money Receipt No. **2ECDFBEFD7** dated **Sat Oct 24**

Repaired by / Used by **M/S WEIGHMAX WEIGHING SYSTEM** (Signature)

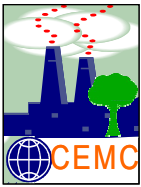
NEXT VERIFICATION DUE ON **06-Nov-2021**

Signature Not Verified

Digitally signed by **RABINDRA KUMAR MOHAPATRA**

Date: 2020.11.07 20:54:36 IST

Legal Metrology Officer , KEONJHAR



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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Reference No : CEMC/ASL/Jun-N-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Noise Monitoring Report  
Date of Monitoring : 11.06.2020  
Sample Collected by : Mr.B Samantaray

## NOISE LEVEL STUDY REPORT

Sl. No.	Location	Noise Level In Day Time dB(A)	Noise Level In Night Time dB(A)
01	Ball Mill (Cool Grinding)	74.2	65.4
02	Raw Material Transfer point of Mixture (Mixture Building)	71.2	68.6

## NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

*Mr. B. Samantaray*  
**Authorized Signatory**  
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Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: cemc122@gmail.com, Mobile: 9861032826, 9861032826





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Reference No : CEMC/ASL/Jul-N-06/20  
 Name of Company : Ardent Steel Ltd.  
 Sample Description : Noise Monitoring Report  
 Date of Monitoring : 13.07.2020  
 Sample Collected by : Mr.B Samantaray

## NOISE LEVEL STUDY REPORT

Sl. No.	Location	Noise Level In Day Time dB(A)	Noise Level In Night Time dB(A)
01	Ball Mill (Cool Grinding)	73.2	64.6
02	Raw Material Transfer point of Mixture (Mixture Building)	70.0	66.8

## NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

*M. K. Rout*

Authorized Signatory

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Reference No : CEMC/ASL/Aug -N-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Noise Monitoring Report  
Date of Monitoring : 11.08.2020  
Sample Collected by : Mr.B Samantaray

## NOISE LEVEL STUDY REPORT

Sl. No.	Location	Noise Level In Day Time dB(A)	Noise Level In Night Time dB(A)
01	Ball Mill (Cool Grinding)	71.8	63.2
02	Raw Material Transfer point of Mixture (Mixture Building)	68.8	65.2

## NATIONAL STANDARD NOISE LEVEL

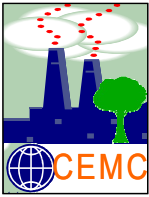
Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Authorized Signatory

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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Reference No : CEMC/ASL/Sept -N-06/20  
Name of Company : Ardent Steel Ltd.  
Sample Description : Noise Monitoring Report  
Date of Monitoring : 14.09.2020  
Sample Collected by : Mr.B Samantaray

## NOISE LEVEL STUDY REPORT

Sl. No.	Location	Noise Level In Day Time dB(A)	Noise Level In Night Time dB(A)
01	Ball Mill (Cool Grinding)	70.2	62.4
02	Raw Material Transfer point of Mixture (Mixture Building)	67.0	63.8

## NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Authorized Signatory

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[FORM No. 31-A]  
**Health Record**  
 (Pre-employment / Periodical)  
 [Prescribed under rule 62 -I]

- 1 Name of the factory : ASL
- 2 Name of the Employee : AKASHYA KUMAR MOHANTA
- 3 Employee Distinguishing Number : 068
- 4 Age of the employee : 46 year.
- 5 Identification mark : A black mole is present at the base of the nose.
- 6 Nature of the job : Workman, mechanical
- 7 Date of Employment : 2008
- 8 Length of service in years : 12 years.
- 9 General Survey :  
 Health :  Good / Fair / Poor  
 Height : Cms. 164 cms  
 Weight : Kg. 59 kg
- 10 Blood group : A +ve
- 11 Eye Vision  
 Normal / Abnormal  
 Use of glass : Yes/No
- 12 Hearing :  Normal / Abnormal
- 13 Respiratory system and chest Measurement  
 Inspiration 36"  
 Expiration 35"  
 Respiration rate / min. 20/min  
 Remarks, if any N/A
- 14 Cardiovascular system  
 Pulse rate 84/min  
 B.P. 140/90 mmHg  
 Heart Sound Normal heard  
 Remarks, if any N/A
- 15 Abdomen Tenderness : Yes/No
- 16 Nervous System  
 History of Fits : Yes/No  
 Epilepsy : Yes/No  
 Remarks on Mental Health Sound
- 17 Locomotor System :  Normal / Abnormal
- 18 Skin Condition :  Normal / Abnormal  
 Remarks on any skin disease noticed : N/A

19 Hernias :

~~Present~~ Absent ✓

20 Hydrocele :

~~Present~~ Absent ✓

21 Present complain if any : नहीं

22 Summary of Findings :

Heart Disease: नहीं

Hypertension: मृदु hypertension

Diabetes : नहीं

T.B. : नहीं

Epilepsy: नहीं

Poisoning: नहीं

Others : नहीं

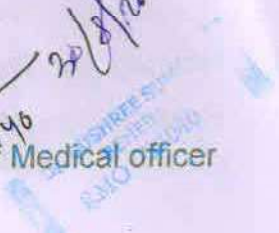
Occupational Disease, if any : Not found.

23 Recommendation, if any for any further investigation

Adv. Restriction of salt.  
not to walk

Ashy Kumar Mohanta  
Signature of the employee

[Signature]  
Signature of Medical officer





[FORM No. 31-A]  
**Health Record**  
(Pre-employment / Periodical)  
[Prescribed under rule 62 -I]

- 1 Name of the factory : ASL
- 2 Name of the Employee : Sondaraman Mohanta
- 3 Employee Distinguishing Number : 679
- 4 Age of the employee : 39 year.
- 5 Identification mark : A blackmole is present over the Right side of the face.
- 6 Nature of the job : chemist AS
- 7 Date of Employment : 1.10.2016
- 8 Length of service in years : 4 year.
- 9 General Survey :  
Health :  Good / Fair / Poor  
Height : Cms. 158 cms  
Weight : Kg. 68 kg
- 10 Blood group : A +ve
- 11 Eye Vision  
Normal / ~~Abnormal~~   
Use of glass : ~~Yes~~ / No
- 12 Hearing : Normal / ~~Abnormal~~
- 13 Respiratory system and chest Measurement  
Inspiration 38"  
Expiration 36"  
Respiration rate / min. 18 / min  
Remarks, if any N/A
- 14 Cardiovascular system  
Pulse rate 72 / min  
B.P. 120 / 80 mmHg  
Heart Sound M32 Normal heard.  
Remarks, if any N/A
- 15 Abdomen Tenderness : ~~Yes~~ / No
- 16 Nervous System  
History of Fits : ~~Yes~~ / No   
Epilepsy : ~~Yes~~ / No   
Remarks on Mental Health Sound
- 17 Locomotor System : Normal / ~~Abnormal~~
- 18 Skin Condition : Normal / ~~Abnormal~~  
Remarks on any skin disease noticed : skin is healthy.



19 Hernias : Present/ Absent ✓

20 Hydrocele : Present/ Absent ✓

21 Present complain if any : None

22 Summary of Findings :

Heart Disease: None

Hypertension: None

Diabetes : None

T.B. : None

Epilepsy: None

Poisoning: None

Others : None

Occupational Disease, if any : None

23 Recommendation, if any for any further investigation

he bears a good health.

Indrani Mahanta  
Signature of the employee

[Signature] 20/40 20/8/20  
Signature of Medical officer



[FORM No. 31-A]  
**Health Record**  
(Pre-employment / Periodical)  
[Prescribed under rule 62 -I]

- 1 Name of the factory : ASL
- 2 Name of the Employee : Amadejethy
- 3 Employee Distinguishing Number : 75
- 4 Age of the employee : 53 year.
- 5 Identification mark : A raised rounded black mole is present  
over the left side abdomen.
- 6 Nature of the job : Workman Stone.
- 7 Date of Employment : 2008
- 8 Length of service in years : 12 years.
- 9 General Survey :  
Health : Good / ~~Fair~~ / ~~Poor~~ ✓  
Height : Cms. 166 cms  
Weight : Kg. 69 kg
- 10 Blood group : B +ve
- 11 Eye Vision  
Normal / ~~Abnormal~~ ✓  
Use of glass : ~~Yes~~ / No ✓
- 12 Hearing : Normal / ~~Abnormal~~ ✓
- 13 Respiratory system and chest Measurement  
Inspiration 37"  
Expiration 35"  
Respiration rate / min. 18 (normal)  
Remarks, if any Nil
- 14 Cardiovascular system  
Pulse rate 73 / min  
B.P. 120 / 80 normal  
Heart Sound 1st 2nd Normal heared.  
Remarks, if any Nil
- 15 Abdomen Tenderness : ~~Yes~~ / No ✓
- 16 Nervous System  
History of Fits : ~~Yes~~ / No ✓  
Epilepsy : ~~Yes~~ / No ✓  
Remarks on Mental Health Sound
- 17 Locomotor System : Normal / ~~Abnormal~~ ✓
- 18 Skin Condition : Normal / ~~Abnormal~~ ✓  
Remarks on any skin disease noticed : Nil

19 Hernias : Present/ Absent ✓

20 Hydrocele : Present/ Absent ✓

21 Present complain if any : *नहीं*

22 Summary of Findings :

Heart Disease: *नहीं*

Hypertension: *नहीं*

Diabetes : *नहीं*

T.B. : *नहीं*

Epilepsy: *नहीं*

Poisoning: *नहीं*

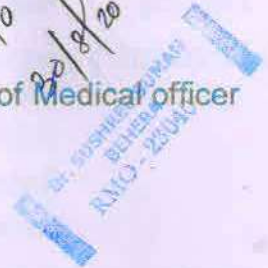
Others : *नहीं*

Occupational Disease, if any : *Not found*

23 Recommendation, if any for any further investigation *Not required.*

*Anjali Kethy.*  
Signature of the employee

*Sunny*  
*28/10*  
*28/10/20*  
Signature of Medical officer





[FORM No. 31-A]  
**Health Record**  
(Pre-employment / Periodical)  
[Prescribed under rule 62 -I]

- 1 Name of the factory : ASL
- 2 Name of the Employee : Lambodhan Bhatnagar
- 3 Employee Distinguishing Number : 27.
- 4 Age of the employee : 42 year.
- 5 Identification mark : Abblackmole's present over the neck  
on the right side.
- 6 Nature of the job : Workshop Workman mechanical.
- 7 Date of Employment : 2008
- 8 Length of service in years : 12 years.
- 9 General Survey :  
Health : Good / ~~Fair~~ / Poor ✓  
Height : Cms. 172 cms  
Weight : Kg. 68 kg
- 10 Blood group : A +ve
- 11 Eye Vision : ✓  
Normal / ~~Abnormal~~  
Use of glass : Yes / No ✓
- 12 Hearing : ✓  
Normal / ~~Abnormal~~
- 13 Respiratory system and chest Measurement  
Inspiration 37"  
Expiration 35"  
Respiration rate / min. 18 / min  
Remarks, if any Nil
- 14 Cardiovascular system  
Pulse rate 72 / min  
B.P. 90 / 60 mmHg  
Heart Sound S1 S2 Normal heard.  
Remarks, if any Nil
- 15 Abdomen Tenderness : Yes / No ✓
- 16 Nervous System  
History of Fits : Yes / No ✓  
Epilepsy : Yes / No ✓  
Remarks on Mental Health Sound
- 17 Locomotor System : ✓  
Normal / ~~Abnormal~~
- 18 Skin Condition : ✓  
Normal / ~~Abnormal~~  
Remarks on any skin disease noticed : Nil

19 Hernias : Present/ Absent

20 Hydrocele : Present/ Absent

21 Present complain if any : NAI

22 Summary of Findings :

Heart Disease: NAI

Hypertension: Hypotensive

Diabetes : NAI

T.B. : NAI

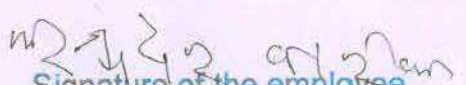
Epilepsy: NAI


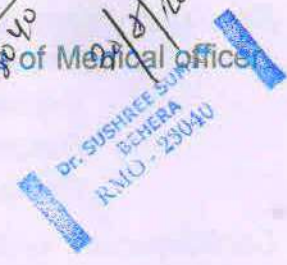
Poisoning: NAI

Others : NAI

Occupational Disease, if any : NAI Not bound.

23 Recommendation, if any for any further investigation Not required.  
Adv. to take proteenous food.  
to drink plenty of water.

  
Signature of the employee

  
Signature of Medical officer  




Ref : ASL/Pollution/2020-21

**Ardent steel limited**

CIN- U27310CT2007PLC007671

Dt.14.10.2020

The Regional Officer,  
State Pollution Control Board,  
Keonjhar

Sub : Submission of Environmental Statement Form - V.


Dear Sir,

Please find enclosed herewith the Environmental Statement Form – V for the financial year ending with 31<sup>st</sup> March'2020.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,

A circular stamp with the text 'ARDENT STEEL LIMITED' around the top edge and 'KEONJHAR' and 'PHULJHAR' around the bottom edge. A signature is written over the stamp.  
ARDENT STEEL LIMITED  
Dr. Subhasish Das  
(Director)





**ANNEXURE**

**ENVIRONMENTAL STATEMENT FORM-V**  
(See rule 14)

*Environmental Statement for the financial year ending with 31<sup>st</sup> March*

**PART-A**

i. Name and address of the owner/ occupier of the industry operation or process.	<b>Dr. Subhasish Das</b> Flat No.404, Kalpataru Niwas, Swarn Apruri Road, Behind Idea Office, Bhubanewar.
ii. Industry category Primary-(STC Code) Secondary- (STC Code)	
iii. Production category – Units.	IRON ORE PELLET
iv. Year of establishment	2007
v. Date of the last environmental statement submitted.	

**PART -B**

*Water and Raw Material Consumption:*

i. *Water consumption in m<sup>3</sup>/d*

<i>Process</i>	:	<i>135 KLD</i>
<i>Cooling</i>	:	<i>29.5 KLD</i>
<i>Domestic</i>	:	<i>198.5 KLD</i>

Name of Products	Process water consumption per unit of products	
	During the previous financial year	During the current financial year
1. Grinding Section	77 KLD	77 KLD
2. Core Section	58 KLD	58 KLD
3. Cooling	29.5 KLD	29.5 KLD
4. Domestic	46.5 KLD	46.5 KLD
5. Dust Supression	152 KLD	152 KLD



ii. *Raw material consumption*

Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
IRON ORE PELLETT	PELLET	641219.00 MTPA	774273.00 MTPA
LIME STONE		1402.76 MTPA	1846.26 MTPA
DOLOMITE		2457.75 MTPA	3427.50 MTPA

\* *Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.*

**PART-C**

**Pollution discharged to environment/unit of output**

*(Parameter as specified in the consent issued)*

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
(a) Water	NIL	NIL	
(b) Air	NIL	NIL	

**PART-D**

**HAZARDOUS WASTES**

*(as specified under Hazardous Wastes (Management & Handling Rules, 1989).*

Hazardous Wastes		Total Quantity (Kg)	
		During the previous financial year	During the current financial year
1. From Process	USED OIL	4.81 KL	14.51 KL
	COTTON WASTE	471 KG	351 KG
	BATTERY	1 NO	3 NOS
2. From Pollution Control Facilities		NIL	NIL





**PART - E**

**SOLID WASTES:**

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From process	NIL	1500 MT
b. From Pollution Control Facility	10308 MT	12372 MT
c. Quantity recycled or re-utilised within the unit.	10308 MT	12372 MT

**PART - F**

*Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.*

SL NO	Name of the Unit	Quantity Generation (in TPD)	Disposal
1	USED OIL SLUDGE	0.045	Disposed to authorised agency.
2	COTTON WASTE	Nil	Reused.
3	COAL ASH	NIL	Used for filling of low end land.

**PART-G**

*Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.*

*The pollution control measures taken on conservation of natural resources since inception.*

**PART - H**

*Additional measures/investment proposal for environmental protection including abatement of pollution. - NOT APPLICABLE - NO*

**PART - I**

**MISCELLANEOUS:**

*Any other particulars in respect of environmental protection and abatement of pollution. - NO*







**Ardent steel limited**  
CIN- U27310CT2007PLC007671

Ref. No. ASL / MoEF & CC / 2020-21

Date: 7<sup>th</sup> January, 2021

To  
The Director  
Ministry of Environment & Forest, Govt. of India  
Eastern Regional Office,  
A/3, Chandrasekharapur,  
Bhubaneswar – 751 023



Sub: Submission of Half Yearly Environmental Clearance Compliance Report for Enhancement in Production capacity of Existing Iron Ore Pellet Plant from 6,00,000 TPA to 6,90,000 TPA through Process Optimization of M/s. Ardent Steel Limited in village - Phuljhar, Block - Bansapal, Dist. - Keonjhar, Odisha

Ref: EC Letter No. J-11011/112/2013-IA.II(I), date 13<sup>th</sup> February, 2020

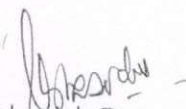
Dear Sir,

As per the conditions given in the Environmental Clearance accorded to our Existing Iron Ore Pellet Plant for Enhancement in Production capacity through Process Optimization in Phuljhar village of Keonjhar district on 13<sup>th</sup> February, 2020, we are herewith submitting the Half Yearly Environmental Clearance Compliance Report for the period of April' 2020 – September' 2020.

Thanking you.

Yours Faithfully

**For Ardent Steel Limited**

  
Dr. Subhasish Das  
(Director)

Encl: As above.