

AM/NS INDIA

Ref No: AMNS/VIZAG/EC(NG)/MOEFCC/04-24

To
The Jt. Director(S),
Integrated Regional office, Ministry of Environment, Forest & Climate Change,
Greenhouse Complex,
Vijayawada 520010, AP.
E-mail: iro.vijayawada-moefcc@gov.in, suresh.pasupuleti@gov.in

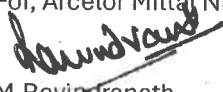
Date: 29th April 2024.
Subject: Submission of Half Yearly Compliance Report on the stipulated environmental clearance terms and conditions in respect of M/S Arcelor Mittal Nippon Steel India Limited Visakhapatnam A.P. Compliance period from October 23 to March'24.
Reference: 1) MoEF File No: -IA-J-11011/131/2022-IA-II(IND-I) and EC Identification No: EC22A008AP120408
2) MoEF&CC's notification vide S.O- 5845€, dt. 28th Nov 2018.

Dear sir,

We are hereby submitting the Half Yearly Compliance Report of the EC Clearance granted for the "Change of fuel from LSHS to Natural Gas in the existing 7.0 MMTPA Iron Ore Pelletisation Plant and Net 25 MW Captive Power plant" received vide MoEFCC File No. IA-J-11011/131/2022-IA-II(IND-I). This Compliance status is from October '23 to March' 24. Also, a copy of this report has been marked to the E-mail ID of your good office.

This is for your kind perusal and records.
Thanking you,

Yours Faithfully,
For, Arcelor Mittal Nippon Steel India limited.


M. Ravindranath
(Executive director)



Encl: 1. Half Yearly Compliance Report, Compliance period: Oct '23 to March' 24

CC:

The Director(S), Compliance and Monitoring Division,
Ministry of Environment, Forest and Climate change,
Indira Paryavaran Bhawan,
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E-mail: moefcc-monitoring@gov.in

The Member Secretary,
Andhra Pradesh Pollution Control Board,
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The Member Secretary (Industry Projects -III)
Ministry of Environment, Forest and Climate change,
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E-mail: dirind-moefcc@gov.in

ArcelorMittal Nippon Steel India Limited

Near Flyover, Scindia Road, Visakhapatnam-530004
Andhra Pradesh, India

Regd. Off : 27km, Surat- Hazira Road, Hazira, Surat
Gujrat 394270 India
CIN - U27100GJ1976FLC013787

Tel : +91-891-2523213
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A Joint venture between ArcelorMittal and
Nippon Steel Corporation


ArcelorMittal


NIPPON STEEL

M/s ArcelorMittal Nippon Steel India Limited,
Near Fly Over, Scindia Road,
Visakhapatnam. A.P

**AM/NS
INDIA**

Half-Yearly Compliance Report for the Period from October'23 -March'24 to the Environmental Clearance Granted (for Change of Fuel Project from LSHS to Natural Gas) in favour of M/s ArcelorMittal Nippon Steel India Limited, Visakhapatnam.

Name of the Company	M/s ArcelorMittal Nippon Steel India Limited, Visakhapatnam
Name of the Project	Proposed change of fuel from LSHS to Natural Gas (Fuel oil as stand by) in the Existing 7.0 MTPA Iron ore Pelletisation Plant and Net 25 MW Captive Power Plant by M/s ArcelorMittal Nippon Steel India Limited located at village Kancharapalem, Tehsil Visakhapatnam Urban, District Visakhapatnam, Andhra Pradesh, India.
EC Identification No.	EC22A008AP120408
File No.	IA-J-11011/131/2022-IA-II(IND-1)
Compliance Status for the Period	October'23 to March'24 – Half Yearly Compliance Report FY 23-24

Submitted By:
M/s ArcelorMittal Nippon Steel India Limited
Visakhapatnam. A.P

Lawrence



M/s ArcelorMittal Nippon Steel India Limited,
Near Fly Over, Scindia Road,
Visakhapatnam. A.P

**AM/NS
INDIA**

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1	Environmental Clearance – Condition Wise Compliance Report


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Condition wise Compliance Report – EC No – IA-J-11011/131/2022-IA-II(IND-I)		
S. No	Specific Condition	Compliance Status
1.	The Project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	<p>Being Complied with</p> <p>Environment Protection Measures</p> <ul style="list-style-type: none"> • ESP, Bag filter, Scrubbers as discussed, and details given are provided to keep the dust level within the stipulated limit. • Efficiency of APCS is being measured time to time from reputed institute and maintained up to designed level. • Environmental monitoring is being carried out by 3rd party accredited agency and reports submitted to pollution control board regularly • Regular Preventive Maintenance is also done to ensure that all the air pollution control equipment installed in the plant shall be working in healthy condition by awarding Annual Maintenance contracts to the technically qualified vendor.
2.	The Project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	<p>Being Complied With</p> <ul style="list-style-type: none"> • As a part of developing carbon sink/ Sequestration, we have already completed the GHG Emission Inventorization Study by a reputed agency. The Specific GHG Emission Intensity reported for the year 2019 and 2020 is 0.109 tCO₂/ Ton of Pellet Production and 0.096 tCO₂/ Ton of Pellet Production. • AMNS had a well-developed a green belt area in about 41.58 acres out of 110 acres. AMNS has conducted CO₂ sequestration study by the subject expert. It is estimated that the CO₂ sequestration from the existing green belt/ Green cover at site is worked out to be about 625.11 tCO₂ e/ Year. Further AMNS India will initiate a study on Decarbonization and GHG Emission Inventorization Study by reputed institutions in H1 2024. • The Change of fuel Project from LSHS to Natural gas is under progress as per below update. <ul style="list-style-type: none"> • Procurement of Gas Burners & Panels-completed • Laying of Internal NG Pipeline & its hook-up to PP1 & PP2.-70% completed. • Allocation of space for Pressure Reduction Station (PRS) of GAIL / APGDC- completed. • Installation of PRS by GAIL/ APGDC- Yet to start by GAIL / APGDC, expected completion Dec 2024. • We have been constantly pursuing with GAIL/ PNGRB/ govt of Ap for the supply of Natural Gas to that effect we made a request to PNGRB to expedite the supply of Natural gas.
3.	Total water requirement for the existing plant as 10205 m ³ /day, including 3655m ³ /day for Captive Power Plant and water required for Pellet Plant is 6550 m ³ /day shall be met	<p>Being Complied with</p> <p>Noted and is being Complied. Existing Water consumption by using recycled water is well below the Total Requirement for the Pellet Plant and Captive Power Plant.</p>



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	from GVMC (1200 m3/day) and recycled water (9120 m3/day).	
4.	Project Proponent shall obtain renewal of lease from Visakhapatnam Port Trust.	Being Complied with AMNS has taken lease of VPA land measuring 148.38 acres for 30 Years. Lease Allotment Letter with Ref. No. IENG/ESTATE/F100437/1415 dated 29.12.2023.
5.	<p>Following additional arrangements to control fugitive dust shall be provided:</p> <p>a) Fog/Mist Sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron ore, Coal and for Fly Ash and similar solid waste storage areas.</p> <p>b) Proper Covered vehicle shall be used while transport of Materials.</p> <p>c) Wheel Washing mechanism shall be provided in entry and exit gates with complete recirculation system.</p>	<p>Being Complied with</p> <p>a. Dry Fog Water Sprinklers are installed on the Product conveying systems. Water Sprinklers and Side Wind Breaking walls are installed for Additive Storage Yards.</p> <p>b. Ensured that all the Vehicles are properly covered with tarpaulin enroute from port to plant.</p> <p>c. During quarterly receipt of Additives, all the vehicles are passing through the Wheel Washing Facility located in front of our plant with complete recirculation which is installed by VPT.</p> 
6.	All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project.	Being Complied with Layout plan, including internal roads connecting to all service areas are provided. All the roads are Min 6.0 mts and Max 9 mts wide and MSA as per IRC guidelines has been taken care of.
7.	All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yard shall also have garland drains to trap the runoff material.	<p>Being Complied With</p> <p>The ground surface of raw material storage yards is laid with gravel 1 foot then compacted and a 3mm thick geo-textile. Over the geo-textile, 150 mm Water Bound Macadam (WBM)¹ is laid. In which stone aggregates and binders are overlaid one over another during construction of WBM layer.</p> <p>Further, the raw material storage yard in the plant area is enclosed with boundary wall on 2 to 3 sides and the open side is well laid with garland drain and catch pit arrangement. The slope of the raw material storage is inclined towards the garland drain. Thus, the rainwater washing the stored material is collected in catchpit through garland drains and the clear</p>



		water is pumped to thickener for recirculation / reuse in the plant. The trapped raw material washings from the catchpits are periodically cleaned and put back on the respective raw material yard.																																																								
8.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MOEF&CC	Being Complied with All the Pollution control Equipment's and their Performance efficiency evaluation study conducted by NABL& MOEFCC accredited consultancy, M/s Team Labs and found all the Pollution control equipment's are meeting the Standard emission levels.																																																								
9.	Particulate matter emission from stacks shall be less than 30 mg/Nm ³ . Action plan submitted to limit the dust emission shall be strictly implemented.	Being Complied with Action plan was prepared and is under progress to achieve 30 mg/Nm ³ from the process stack emissions. Accordingly, the upgradation of existing ESP's in Phase wise by providing HFPS/MFPS. Order was placed on M/s SEID, the installation work will be completed by Sep, 2024 in PP-1 and Performance evaluation will be done by end of Nov -24. Installation will be done in PP2, CPP by the end of April-25 and Dec-25 respectively.																																																								
10.	Solid waste utilization (a) PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement. (b) PP shall recycle/reuse 100% solid waste generated in the plant as per submitted plan. (c) Used refractories shall be recycled as far as possible	Being Complied with a. Not Applicable b. All the Solid waste generated during period October to march was disposed to Authorized Vendors as per the Below Solid Waste Generation Table. <table border="1" data-bbox="660 1021 1417 1899"> <thead> <tr> <th>S.No</th> <th>Description</th> <th>UOM</th> <th>Quantity</th> <th>Disposed to</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1</td> <td rowspan="3">Fly ash</td> <td rowspan="3">MT</td> <td>2684.98</td> <td>M/S Sri Srinivasa Bricks works</td> </tr> <tr> <td>1330.300</td> <td>M/S Venkata Maruthi Material Supply</td> </tr> <tr> <td>957.610</td> <td>M/S Srusti trading and logistics</td> </tr> <tr> <td>2</td> <td>Used Oil</td> <td>NO</td> <td>32</td> <td>M/S Navya waste & used oil re refining</td> </tr> <tr> <td>3</td> <td>Canteen Waste</td> <td></td> <td>NA</td> <td>Used as manure for plantation</td> </tr> <tr> <td>4</td> <td>E-Waste</td> <td>MT</td> <td>3.9</td> <td>M/S Enviro collection centre</td> </tr> <tr> <td rowspan="2">5</td> <td rowspan="2">MS Scrap</td> <td rowspan="2">MT</td> <td>192.9</td> <td>M/S Vizag metals and minerals</td> </tr> <tr> <td>10.760</td> <td>M/S S.R iron traders</td> </tr> <tr> <td>6</td> <td>Used Conveyor belt</td> <td>MT</td> <td>28.44</td> <td>M/S KGA belting</td> </tr> <tr> <td>7</td> <td>Used filter bags</td> <td>MT</td> <td>35.44</td> <td>M/s. N A traders</td> </tr> <tr> <td>8</td> <td>Rubber Scrap</td> <td>MT</td> <td>16.8</td> <td>M/s. N A Traders</td> </tr> <tr> <td>9</td> <td>Wood Scrap</td> <td>MT</td> <td>17.02</td> <td>M/s. N A Traders</td> </tr> </tbody> </table> c. Used refractories generated only during annual shutdown. The used refractories are disposed through authorized Recyclers.	S.No	Description	UOM	Quantity	Disposed to	1	Fly ash	MT	2684.98	M/S Sri Srinivasa Bricks works	1330.300	M/S Venkata Maruthi Material Supply	957.610	M/S Srusti trading and logistics	2	Used Oil	NO	32	M/S Navya waste & used oil re refining	3	Canteen Waste		NA	Used as manure for plantation	4	E-Waste	MT	3.9	M/S Enviro collection centre	5	MS Scrap	MT	192.9	M/S Vizag metals and minerals	10.760	M/S S.R iron traders	6	Used Conveyor belt	MT	28.44	M/S KGA belting	7	Used filter bags	MT	35.44	M/s. N A traders	8	Rubber Scrap	MT	16.8	M/s. N A Traders	9	Wood Scrap	MT	17.02	M/s. N A Traders
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11.	Bay of Bengal (3.3 Km, E) Narava Gedda (5.3) and Mehadri Gedda (9.2 Km, NW) exists within 10 Km. radius of the plant site. A robust and full proof Drainage Conservation Scheme to protect the natural drainage and it flow parameters; along with Soil Conservation scheme and multiple Erosion control measures shall be implemented	<p><u>Being Complied with</u></p> <p>The project site is not in vicinity of any river and neither within the flood affected zone of any river. Further, no canal / nala / seasonal drain and any other water body is passing through the project site. A detailed Study Conducted by Dr. V Venkateshwara Rao, Professor Retd. (Geo Engineering), Andhra University opined that with respect to ground water recharge there is no feasibility due to</p> <ol style="list-style-type: none"> 1. Marine clay which is an impermeable layer present from 1m to 3m and 13 m to 14 m from the present ground level in the entire site of investigation. Marine clay formation is not an Aquifer. 2. Water table is at 0.8m to 1.18m depth and is not advisable to do recharge of groundwater to avoid water logging problem. 3. Groundwater quality in this marine environment is highly saline and of no use even if we add a little amount of fresh water.
12	The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.	<p><u>Being Complied with</u></p> <p>There is no wastewater generation and disposal from the process. Hence no ETP is required. However, around 8 no's sumps were provided in the plant to collect the stormwater/ Rainwater and reuse back into the process. Sewage is treated in 20KLD STP and the treated water is used for road dust suppression and greenbelt / green cover area. The Sewage treated water is being monitored every month and test reports are being submitted to APCCB.</p>
13	The company shall also undertake rainwater harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.	<p><u>Complied with</u></p> <p>As per the recommendation of Dr V Venkateshwara Rao, Professor Retd. (Geo Engineering), Andhra University the following actions were taken and completed.</p> <ul style="list-style-type: none"> • Existing and new bund walls were raised at greenbelt/ green cover catchment areas in the plant. • Down commers (pipes) were arranged for the newly constructed additive storage sheds. <div style="text-align: center;">  </div>




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14	GnanaPuram (0.9 Km, E), Kancharpalem (0.9 Km, NE) Velampeta (2 Km, SE), Akkayapalem (2.8 Km, NE) and Gandhigram (3.3 Km, SE) exists within the study area of project site Project Proponent shall take appropriate environmental safeguard measures to minimize the impact of the habitation of the locals. The company shall also include this location in its environmental monitoring program.	<p>Being Complied with We have taken Appropriate environmental safeguard measures to minimise the impact specifically at Gnanapuram(School Boundaries) by planting 2000 no trees with a height of 12-14 feet. Around 5000 no trees were planted towards east and Northeast side of the plant with a height of 12-14 feet with an expenditure of 69.3 Lakhs. Further, Kancharpalem Velampeta, Akkayapalem and Gandhigram have been covered in the monthly Environment Monitoring program by an MoEF&CC accredited 3rd party agency M/s Team Labs.</p> <table border="1" data-bbox="655 555 1406 797"> <thead> <tr> <th rowspan="2">Location</th> <th colspan="4">Q3(Average)</th> <th colspan="4">Q4(Average)</th> </tr> <tr> <th>PM 2.5</th> <th>PM 10</th> <th>SO2</th> <th>NOx</th> <th>PM 2.5</th> <th>PM 10</th> <th>SO2</th> <th>NOx</th> </tr> </thead> <tbody> <tr> <td>Gnanapuram</td> <td>36.4</td> <td>70.8</td> <td>16.7</td> <td>22.6</td> <td>37.0</td> <td>70.3</td> <td>15.3</td> <td>20.9</td> </tr> <tr> <td>kancharpalem</td> <td>39.3</td> <td>73.0</td> <td>15.5</td> <td>21.4</td> <td>35.4</td> <td>66.4</td> <td>16.2</td> <td>22.8</td> </tr> <tr> <td>Velampeta</td> <td>38.2</td> <td>70.2</td> <td>16.1</td> <td>22.2</td> <td>35.9</td> <td>65.3</td> <td>16.1</td> <td>22.7</td> </tr> <tr> <td>Akkayapalem</td> <td>39.5</td> <td>74.1</td> <td>17.0</td> <td>22.0</td> <td>32.8</td> <td>63.9</td> <td>16.2</td> <td>23.8</td> </tr> <tr> <td>Gandhigram</td> <td>36.7</td> <td>67.8</td> <td>16.8</td> <td>22.7</td> <td>32.8</td> <td>63.6</td> <td>17.0</td> <td>22.5</td> </tr> </tbody> </table>	Location	Q3(Average)				Q4(Average)				PM 2.5	PM 10	SO2	NOx	PM 2.5	PM 10	SO2	NOx	Gnanapuram	36.4	70.8	16.7	22.6	37.0	70.3	15.3	20.9	kancharpalem	39.3	73.0	15.5	21.4	35.4	66.4	16.2	22.8	Velampeta	38.2	70.2	16.1	22.2	35.9	65.3	16.1	22.7	Akkayapalem	39.5	74.1	17.0	22.0	32.8	63.9	16.2	23.8	Gandhigram	36.7	67.8	16.8	22.7	32.8	63.6	17.0	22.5
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15	As committed, project proponent shall undertake CER through innovative schemes in consultation with District Administration.	<p>Being Complied with</p> <table border="1" data-bbox="655 860 1406 1301"> <thead> <tr> <th colspan="2">CSR & CER Expenditure from October 2023 to March 2024</th> </tr> <tr> <th>Thematic area</th> <th>Expenditure (INR) in Lakhs</th> </tr> </thead> <tbody> <tr> <td>Sports & Culture</td> <td>3,12,490</td> </tr> <tr> <td>Environmental Awareness Programs</td> <td>1,32,07,989</td> </tr> <tr> <td>Educational Support</td> <td>0</td> </tr> <tr> <td>Infrastructure Development</td> <td>85,78,063.56</td> </tr> <tr> <td>Others</td> <td>5,78,010</td> </tr> <tr> <td>TOTAL</td> <td>2,26,76,553</td> </tr> </tbody> </table>	CSR & CER Expenditure from October 2023 to March 2024		Thematic area	Expenditure (INR) in Lakhs	Sports & Culture	3,12,490	Environmental Awareness Programs	1,32,07,989	Educational Support	0	Infrastructure Development	85,78,063.56	Others	5,78,010	TOTAL	2,26,76,553																																														
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16	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	<p>Being Complied with E-waste is being disposed through CPCB/ APPCB authorized recyclers. Annual returns for the E-waste generated and disposed in FORM -3 has been submitted to APPCB.</p>																																																														
17	Three-tier Green Belt shall be developed in at least 33% of the project area in a time frame of one year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. The survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted	<p>Being Complied with AMNS had a well-developed a green belt area in around 41.58 acres out of 110 acres with 41580 trees (38% of plant area) covering all the 4 with native species and avenue plantation. We are ensuring the survival rate of thye developed greenbelt in and around plant premises by closely monitoring on daily basis by a dedicated Horticultural contractor. Around 5000 no trees including replacement and additional new plantation carried out towards east and Northeast side of the plant with a height of 12-14 feet.</p>																																																														



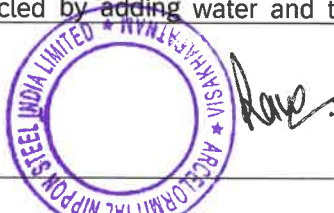
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	to the concerned Regional Office of the MoEF&CC.	
18	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Being Complied with In plant area, the land is covered with Shade Grass and Bitumen Top Layer to arrest soil Erosion and dust Pollution.
19	Air Cooled condensers shall be used in the captive power plant.	Being Complied with We are using recycled water in the existing surface condensers. No Fresh/ Groundwater is used. Requested MOEFCC during the EAC meeting held on 23 rd January'2024 for the proposed expansion for the waiver of this condition duly submitting the Techno feasibility report.
20	During operational phase at Captive Power Plant, PP shall measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.	Being Complied with We have identified hot areas in the plant. Noise Monitoring within the process areas is being done by the MOEFCC & NABL accredited laboratory, M/S Teamlabs.
21	The Plastic waste Management Rules 2016, inter-alia, mandated banning of identifies Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry of	Being Complied with All the Single Use Plastics are banned within the plant premises. Promoting usage of Paper cups and cloth bags inside the plant premises. Awareness Training Programs have been given to all the Employees and Associates. As a part of Environmental initiative, we have been using Compostable plastic bags / covers in canteen areas. And under CER initiative to increase the awareness, distributed jute bags to the Women Self-help groups.  We assure that the implementation status will be submitted along with six monthly compliance reports on regular basis.




	12/082021.A report, along with Photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the Project Proponents.	
22	The Project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of clean fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	Being Complied with High efficient air pollution control equipment's like ESPs, wet scrubbers, High capacity bag filters, covered storage sheds for additive storage yards, regular water sprinkling on the internal roads and developed a thick green belt towards the habitation side and all along the plant boundary. The project of change fuel is within the plant premises by laying a pipeline only, there is no civil and mechanical structural construction is involved.
23	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MOEF&CC.	Being Complied with AS per the approved recommendations by the District Forest Officer under Wildlife Conservation plan, AMNS India spent Rs. 13,22,256 /- towards upliftment and developmental activities in Kambalkonda Wildlife Sanctuary during the period October'23 to March '24.
B.	General Conditions	
I.	Statutory Compliance	
1.	The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notification,2006 and its amendments issued from time to time. It does not tantamount/conditions to the followed under any other Acts/Rules/Subordinate Legislations., as may be applicable to the project.	Noted and will be complied.
II.	Air Quality Monitoring and Preservation	



1	<p>The project proponent shall install a 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as two Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act,1986 or NABL accredited laboratories.</p>	<p>Being Complied with 2 No's CAAQM Stations installed at upwind and Downwind directions and 3 No's CEMS installed in Main Process Stacks of PP – 1, PP – 2 and CPP and the data is being uploaded into APPCB and CPCB websites. Calibration of 2 CAAQM and 3 CEMS by Equipment supplier has been done in the month of May 2023.</p> <p>As per the recommendation of MOEFCC, we are planning to install additional 2 No's CAAQM stations in consultation with the regional office, Ap Pollution control board. Data from 3 no's CEMS installed in Main process stacks of PP – 1, PP – 2 and CPP is given in the below table in quarterly basis</p> <table border="1" data-bbox="778 645 1294 819"> <thead> <tr> <th colspan="4">Stack Emission data (Average)</th> </tr> <tr> <th>Quarter</th> <th>PP 1</th> <th>PP2</th> <th>CPP</th> </tr> </thead> <tbody> <tr> <td>Q3</td> <td>41.38</td> <td>40.57</td> <td>57.83</td> </tr> <tr> <td>Q4</td> <td>44.92</td> <td>40.61</td> <td>58.58</td> </tr> </tbody> </table> <p>Data from 2 no's CAAQM stations installed at upwind and downwind direction is given in the below table in quarterly basis.</p> <table border="1" data-bbox="662 913 1414 1176"> <thead> <tr> <th colspan="5">Ambient Air Quality Monitoring data(Average)</th> </tr> <tr> <th rowspan="2">Parameters</th> <th colspan="2">Q3</th> <th colspan="2">Q4</th> </tr> <tr> <th>CAAQM 1</th> <th>CAAQM 2</th> <th>CAAQM 1</th> <th>CAAQM 2</th> </tr> </thead> <tbody> <tr> <td>PM 2.5</td> <td>17.41</td> <td>19.65</td> <td>36.72</td> <td>30.71</td> </tr> <tr> <td>PM10</td> <td>39.46</td> <td>38.61</td> <td>75.74</td> <td>58.79</td> </tr> <tr> <td>SO2</td> <td>10.76</td> <td>10.65</td> <td>11.95</td> <td>12.69</td> </tr> <tr> <td>NOx</td> <td>23.96</td> <td>23.54</td> <td>23.81</td> <td>23.49</td> </tr> </tbody> </table>	Stack Emission data (Average)				Quarter	PP 1	PP2	CPP	Q3	41.38	40.57	57.83	Q4	44.92	40.61	58.58	Ambient Air Quality Monitoring data(Average)					Parameters	Q3		Q4		CAAQM 1	CAAQM 2	CAAQM 1	CAAQM 2	PM 2.5	17.41	19.65	36.72	30.71	PM10	39.46	38.61	75.74	58.79	SO2	10.76	10.65	11.95	12.69	NOx	23.96	23.54	23.81	23.49
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2	<p>The Project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act,1986 or NABL accredited laboratories.</p>	<p>Being Complied with Fugitive Emissions are being monitored by an accredited third-party Agency M/s Team lab.</p>																																																		
3	<p>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.</p>	<p>Being Complied with Appropriate Air Pollution Control Equipment (APC) like Bag Filters, ESPs, Wet Scrubbers are already installed, and all the monitored values are well within the emission norms prescribed by APPCB/ MoEFCC.</p>																																																		
4	<p>The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.</p>	<p>Being Complied with We have installed Reverse Jet Air Bag Filters. Bags are cleaned by injecting clean air into the dust collector, which is a continuous operation. Leak detection process is being done Physically on daily basis by checking healthiness of Diaphragm purging, Differential Pressure of the Bag filter for all the installed Bag Filters.</p>																																																		
5	<p>Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other</p>	<p>Being Complied with All the Dust collected from Bag Filters, ESPs, Wet Scrubbers is being recycled by adding water and taken to thickeners and</p>																																																		



	<p>finer collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.</p>	<p>used a Raw Material.</p>
6	<p>The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.</p>	<p>Being Complied with All the Raw Materials, once in a quarter (For 5 – 6 days of transportation). Ensuring Tarpaulin covering and wetting of roads during Transportation. The Product is transported to stockpile using Closed Conveyors.</p> 
7	<p>The project proponent shall provide primary and secondary fume extraction system for all melting furnaces.</p>	<p>Not Applicable</p>
8	<p>Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, oil Cellars.</p>	<p>Not Applicable</p>
<p>III. Water Quality Monitoring and Preservation</p>		
1	<p>The Project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R. 414 € dated 30th May 2008; G.S.R. 277 € dated 31st March 2012 (applicable to IF/EAF); S.O.3305 € dated 7th 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 Environmental (Protection) Act,1986 or NABL accredited laboratories.</p>	<p>Being Complied with There is no wastewater generation and disposal from the process. Hence no ETP is required. However, around 8 no's sumps were provided in the plant to collect the stormwater and reuse back into the process. Domestic wastewater is being treated in the Sewage Treatment plant (STP) and the treated water is being reused for greenbelt and road cleaning.</p>
2	<p>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</p>	<p>Being Complied with Groundwater is being monitored twice in a year by an accredited third-party Agency M/s Team lab.</p>

	recognized under Environment (Protection) Act,1986 and NABL accredited laboratories.	
3	The Project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in GSR 277 (E) 31 st March 2012 (applicable to IF/ EAF) as amended from time to time.	This is a Pelletization Plant and No Rolling mills are used. Hence Not Applicable
4	Garland drains and collection pits shall be provided for each stockpile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Being Complied with Garland drains and Collection pits are provided, and the runoff water is being collected into sump located at stockpile and the same is used for the dust suppression systems.
5	Tyre washing facilities shall be provided at the entrance/exit of the plant gates.	Being Complied with During quarterly receipt of Additives, all the vehicles are passing through the Wheel Washing Facility with complete recirculation which is installed by VPT before the plant material gate entrance. 
IV.	NOISE MONITORING AND PREVENTION	
1	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules,2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Being Complied with Noise Monitoring is being carried out on monthly basis.
V.	ENERGY CONSERVATION MEASURES	
1	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption	Being Complied with AM/NS India Vizag Asset initiated under Project Ujwala installed 120 kW solar power generating system at King George Hospital, Visakhapatnam and Victoria hospital,visakhapatnam. Under the Energy Conservation measures 100% LED lights installation has been successfully completed in the plant.  
VI.	WASTE MANAGEMENT	
1	Used refractories shall be	Being Complied with

	recycled.	Used refractories generated only during annual shutdown. The used refractories are disposed through authorized Recyclers.
2	Kitchen waste shall be composted or converted to biogas from further use.	Being complied with Kitchen waste is being composted by Horticulture department and the generated manure is being used for Greenbelt as manure.
V I I	GREEN BELT	
1	The project proponent shall prepare GHG emissions inventory for the Plant and shall submit the program for reduction of the same including carbon sequestration including plantation.	Being Complied With <ul style="list-style-type: none"> As a part of developing carbon sink/ Sequestration, we have already completed the GHG Emission Inventorization Study by a reputed agency. The Specific GHG Emission Intensity reported for the year 2019 and 2020 is 0.109 tCO₂/ Ton of Pellet Production and 0.096 tCO₂/ Ton of Pellet Production. AMNS had a well-developed a green belt area in about 41.58 acres out of 110 acres. AMNS has conducted CO₂ sequestration study by the subject expert. It is estimated that the CO₂ sequestration from the existing green belt/ Green cover at site is worked out to be about 625.11 tCO₂ e/ Year. Further AMNS India will initiate a study on Decarbonization and GHG Emission Inventorization Study by reputed institutions in H1 2024. The Change of fuel Project from LSHS to Natural gas is under progress as per below update. <ul style="list-style-type: none"> Procurement of Gas Burners & Panels-completed Laying of Internal NG Pipeline & its hook-up to PP1 & PP2.-70% completed. Allocation of space for Pressure Reduction Station (PRS) of GAIL / APGDC- completed. Installation of PRS by GAIL/ APGDC- Yet to start by GAIL / APGDC, expected completion Dec 2024. We have been constantly pursuing with GAIL/ PNGRB/ govt of Ap for the supply of Natural Gas to that effect we made a request to PNGRB to expedite the supply of natural gas
2	Project proponent shall submit a study report on De-carbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All	Being Complied With <ul style="list-style-type: none"> As a part of developing carbon sink/ Sequestration, we have already completed the GHG Emission Inventorization Study by a reputed agency. The Specific GHG Emission Intensity reported for the year 2019 and 2020 is 0.109 tCO₂/ Ton of Pellet Production and 0.096 tCO₂/ Ton of Pellet Production. AMNS had a well-developed a green belt area in about 41.58 acres out of 110 acres. AMNS has conducted CO₂ sequestration study by the subject expert. It is estimated that the CO₂ sequestration from the existing green belt/ Green cover at site is worked out to be about 625.11 tCO₂ e/ Year. Further AMNS India will initiate a study on Decarbonization and GHG Emission Inventorization Study by reputed institutions in H1 2024. The Change of fuel Project from LSHS to Natural gas is under progress as per below update. <ul style="list-style-type: none"> Procurement of Gas Burners & Panels-



	<p>these activities/assessments should be measurable and monitor able with defined time frames.</p>	<p>completed</p> <ul style="list-style-type: none"> Laying of Internal NG Pipeline & its hook-up to PP1 & PP2.-70% completed. Allocation of space for Pressure Reduction Station (PRS) of GAIL / APGDC- completed. Installation of PRS by GAIL/ APGDC- Yet to start by GAIL / APGDC, expected completion Dec 2024. <ul style="list-style-type: none"> We have been constantly pursuing with GAIL/ PNGRB/ govt of Ap for the supply of Natural Gas to that effect we made a request to PNGRB to expedite the supply of natural gas.
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VIII. PUBLIC HEARING AND HUMAN HEALTH ISSUES

<p>1</p>	<p>Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented</p>	<p>Being Complied with EPRP and HIRA is in place and necessary awareness and Training is being given to all the employees and Associates. Mock drills are also being conducted on quarterly basis.</p> 
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<p>2</p>	<p>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.</p>	<p>Being Complied with FR jackets, reflective jackets were issued as PPE to all the Employees and Associates who are working in Identified Hot Zones (Induration Furnace & Boiler). Non-FR Jackets are issued to all the employees working in normal areas for protection from Rotating parts. As per the heat stress survey report carried out by NABL & MOEFCC Accredited laboratory M/S Team labs, WGBT indoor value found to be- < 27.5° c, the workforce found to be not under heat stress.</p>
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<p>3</p>	<p>Occupational health surveillance of the worker shall be done on a regular basis and records maintained.</p>	<p>Being Complied with Health Surveillance is being done on regular basis and the records are being maintained at OHC by qualified Doctor.</p>
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IX. ENVIRONMENT MANAGEMENT

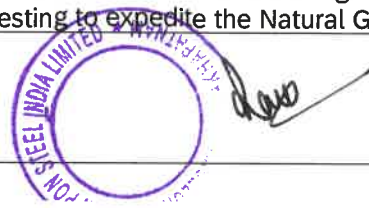
<p>1.</p>	<p>The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 30/09/2020.As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and under take community developmental activities in consultation with the village Panchayat and the District Administration as Committed.</p>	<p>Being Complied with</p> <table border="1" data-bbox="662 1612 1412 2049"> <thead> <tr> <th colspan="2">CSR & CER Expenditure from October 2023 to March 2024</th> </tr> <tr> <th>Thematic area</th> <th>Expenditure (INR) in Lakhs</th> </tr> </thead> <tbody> <tr> <td>Sports & Culture</td> <td>3,12,490</td> </tr> <tr> <td>Environmental Awareness Programs</td> <td>1,32,07,989</td> </tr> <tr> <td>Educational Support</td> <td>0</td> </tr> <tr> <td>Infrastructure Development</td> <td>85,78,063.56</td> </tr> <tr> <td>Others</td> <td>5,78,010</td> </tr> <tr> <td>TOTAL</td> <td>2,26,76,553</td> </tr> </tbody> </table>	CSR & CER Expenditure from October 2023 to March 2024		Thematic area	Expenditure (INR) in Lakhs	Sports & Culture	3,12,490	Environmental Awareness Programs	1,32,07,989	Educational Support	0	Infrastructure Development	85,78,063.56	Others	5,78,010	TOTAL	2,26,76,553
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2.	<p>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 / deviations/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.</p>	<p>Being Complied with Company has a well laid down Environment Policy</p>
3.	<p>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 directly to the head of the organization</p>	<p>Being Complied with A dedicated Environment management Cell with a Senior Level officer with supporting Qualified personnel are in place and directly reporting to Executive director of the plant.</p>
<p>X. MISCELLANEOUS</p>		
1	<p>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 or 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.</p>	<p>Being Complied with Public Notice has been issued in the leading English & Telugu newspapers Deccan Chronicle & vartha Respectively on 7th December 2022.</p>
2	<p>The copies of the environmental clearance shall be submitted by the</p>	<p>Complied with Environment clearance document has been submitted to GVMC, APPCB.</p>



	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 them for 30 days from the date of receipt.	
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.	Being Complied with Half yearly Compliance report for the period october'23 to march'24 along with monitored data and study report has been submitted on MoEFCC website.
4	The Project proponent shall monitor the criteria pollutants level namely; PM10, SO ₂ , NO _x (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	Being Complied with Online CEMS & CAAQMS are installed in the plant premises and the data is continuously uploaded onto APPCB & CPCB portals.
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 environment clearance portal.	Being Complied with Half yearly Compliance report for the period october'23 to march'24 along with monitored data and study report has been submitted on MoEFCC website.
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.	Being Complied with The Environment Statement for the year 2023 – 2024 has been submitted to APPCB/ MoEFCC on 18 th April, 2024.
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	Being Complied with The project is under execution stage, around 75% is completed. The project is expected to be completed by the end of Q4 2024 subjected to the gas supplies from GAIL. Letter submitted to Petroleum and Natural gas regulatory board (PNGRB) requesting to expedite the Natural Gas Supply.



	authorities, commencing the land development work and start of production operation by the project.																																				
8	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.	Being Complied with All the Recommendations and Commitments made in the EIA/ EMP report are complied with.																																			
9	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc.in the company web site for the information to public/public domain. The PP shall also put the information on the left-over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to Public/Public domain.	<p>Being Complied with The project is considered under 7(II) under EIA Notification 2006, Hence PH is exempted. Budgetary commitments given in EIA/ EMP report have been complied with.</p> <table border="1"> <thead> <tr> <th colspan="5">Status of Environment related expenditure under Capital Cost (F Y 2 0 2 3 - 2 0 2 4)</th> </tr> <tr> <th>S. No.</th> <th>Category</th> <th>Proposed Budget Rs in Lakhs</th> <th>Expenditure as on (22.01.2024) in Lakhs</th> <th>Balance budget in Rs. Lacs</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Air Pollution control equipment (ESPs) upgradation</td> <td>625</td> <td>516</td> <td>109</td> </tr> <tr> <td>2</td> <td>Sewage Treatment for Domestic/sanitary wastewater</td> <td>51.8</td> <td>35.7</td> <td>16.12</td> </tr> <tr> <td>3</td> <td>Emission Monitoring equipment upgradation</td> <td>679</td> <td>439</td> <td>240</td> </tr> <tr> <td>4</td> <td>Green belt development (Additional)</td> <td>200</td> <td>146.49</td> <td>53.51</td> </tr> <tr> <td colspan="2">Total Capital Expenditure</td> <td>1555.8</td> <td>1137.19</td> <td>418.63</td> </tr> </tbody> </table>	Status of Environment related expenditure under Capital Cost (F Y 2 0 2 3 - 2 0 2 4)					S. No.	Category	Proposed Budget Rs in Lakhs	Expenditure as on (22.01.2024) in Lakhs	Balance budget in Rs. Lacs	1	Air Pollution control equipment (ESPs) upgradation	625	516	109	2	Sewage Treatment for Domestic/sanitary wastewater	51.8	35.7	16.12	3	Emission Monitoring equipment upgradation	679	439	240	4	Green belt development (Additional)	200	146.49	53.51	Total Capital Expenditure		1555.8	1137.19	418.63
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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).	Noted & agreed.																																			
11	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act,1986	Noted & agreed.																																			
12	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted & agreed.																																			
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	right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	
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.	Noted & will be complied.
9	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Noted & agreed.
10	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act,1986.	Noted & agreed.
11	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, with in a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act,2010.	Noted & agreed.
12	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	Noted and will be complied.



M/s ArcelorMittal Nippon Steel India Limited,
Near Fly Over, Scindia Road,
Visakhapatnam. A.P

**AM/NS
INDIA**

	<p>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.</p>	
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***** END OF THE REPORT*****



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