

Ref. No.: AMNS/DBN/HSE/24-25/04

Date : 27.05.2024

To  
The Addl. Principal Chief Conservator of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Govt. of India, Eastern Regional Office, A/3,  
Chandrasekharpur, Bhubaneswar – 751023  
Odisha.

**Sub: Submission of half yearly report of compliance to the conditions of following Environmental Clearance of M/s ArcelorMittal Nippon Steel India Limited, Dabuna for the period from Oct'23 to Mar'24.**

- i. 10.7 MTPA Beneficiation Plant vide no. J-11015/876/2007- IA.II (M) Dated: 04.05.2009
- ii. 16 MTPA Expansion Project vide no. 78693/31-IND/07-2022, Issued on- 14.03.2023

Dear Sir,

This is in reference to the subject above, We are submitting herewith the half yearly compliance status for the Environmental Clearances granted to M/s ArcelorMittal Nippon Steel India Ltd., vide letter no. J-11015/876/2007- IA. II (M), Dated 04.05.2009 for its 10.7 MTPA Beneficiation Plant at Dabuna and vide letter no. 78693/31-IND/07-2022, Issued on- 14.03.2023 for expansion project of 16MTPA at Keonjhar, Odisha for the period from **October'23 to March'24.**

This is for your kind perusal.

Thanking you  
Yours faithfully  
For ArcelorMittal Nippon Steel India Ltd.



Plant Head,  
Beneficiation Plant, Dabuna

Encl.: As above

Copy to:

1. Member secretary, State Environment Impact Assessment Authority (SEIAA), Bhubaneswar, Odisha
2. Member Secretary, Odisha State Pollution Control Board, Bhubaneswar, Odisha.
3. Member Secretary, Central Pollution Control Board, Zonal Office, Kolkata.
4. Regional Office, Odisha State Pollution Control Board, Keonjhar, Odisha.


**NAME OF THE PROJECT** : 10.7 MTPA BENEFICIATION PLANT AT - DABUNA, KEONJHAR BY M/S ARCELORMITTAL NIPPON STEEL INDIA LIMITED.



**CLEARANCE LETTER/S NO. & DATE** : J-11015/876/2007- IA.II (M) DATED: 04.05.2009



**PERIOD** : 1<sup>st</sup> Oct' 2023 TO 31<sup>st</sup> Mar' 2024

**A. SPECIFIC CONDITIONS:**

SL. NO.	CONDITIONS	COMPLIANCE STATUS
01	The project proponent shall obtain prior Consent to establish and Consent to operate for the project from the State Pollution Control Board, Orissa and shall effectively implement all the conditions stipulated there in.	Consent to establish (NOC) obtained from the State Pollution Control Board, Orissa vide letter No.24029/Ind-II-NOC-4998 dated 04.11.2008.  Consent to operate has been obtained vide letter No. 4258/IND-I-CON-6382 Dated 27.03.2024 having validity till 30.09.2024.
02	Environmental Clearance is subject to grant of forestry clearance. Necessary forestry clearance under the Forest (Conservation) Act, 1980 for diversion of forest land involved in the project shall be obtained before starting operation in that area. No work shall be undertaken in the forest area without obtaining requisite prior forestry clearance.	Stage-II clearance for slurry pipeline of 0.724 ha as well as 0.827 Ha have been obtained vide letter No.5-ORB/166/2013/BHU dated 23.09.2013 and 5-ORB/190/2014/BHU dated 31.03.2014 and Stage – II forest clearance for water pipeline has also been obtained vide letter No. 5-ORB/167/2013/ BHU dated 21.06.2013.
03	The project proponent shall maintain a distance of at least 500 m from the HFL of Malda and Baitarni River.	The Tailing Pond location has been changed from Basantpur to village Sankari of Phuljhar GP which is at more than 500 mtr from any water body.
04	The design of the tailing pond shall be as per the design to be provided/ approved by Central Water Commission (CWC), keeping in view the rainfall in the area, proximity of the tailing pond to the perennial rivers and safety.	Advance possession of land measuring 321.80 acres has already been obtained from Govt. of Odisha and the rest is under acquisition and alienation. The construction of tailing pond shall be as per approved design of CWC during execution.
05	The tailing pond shall be lined with appropriate HDPE lining to ensure that there is no leaching from the tailing pond	It would be ensured that there is no leaching from the tailing pond that stores non-toxic iron ore tailings. However, appropriate liner will be provided during construction.


06	The water recovery and spill way system shall be so designed that the natural water resources are not affected and that no spill water goes into the nearby river(s)	Shall be complied with.
07	The ground water quality around the tailing pond shall be monitored regularly. The monitoring network shall be designed in consultation with CWC and Central Ground Water Authority. There shall be at least one monitoring station between the tailing pond and the river.	Shall be complied with when the tailing pond becomes operational.
08	The Project Proponent shall carry out conditioning of the ore with water to mitigate fugitive dust emission, without affecting flow of ore in the ore processing and handling areas	<p>Dust suppression systems (18 High pressure water sprinklers having a throw of 25m, pressure of 4.5 bar and with a spacing of 30 m) have already been provided in the material handling areas.</p> <p>Moreover, High pressure mist forming water sprinklers have been installed at all the feed hoppers of the raw material stock yard and Truck Unloading Station along with the conveyor discharge chutes in the transfer houses are equipped for suppression of the fugitive dust emission.</p>
		
09	The effluent from the ore beneficiation plant shall be treated in the tailing thickener and the tailings slurry shall be transported through a closed pipeline to the tailing dam.	The tailing thickener is already in place. The tailings shall always be conveyed to the tailing dam through underground pipeline.
10	The garland drain shall be constructed around the tailing dam before starting operation of the project	Garland drain is part of the design of the tailing dam and shall be provided around the tailing pond before it is commissioned.
11	The decanted water from the tailing dam shall be recirculated and there should be zero discharge from the tailing dam	There will be no discharge from the tailing dam as the surplus water shall be recycled and sent back to the Beneficiation Plant through underground pipeline for reuse in process.
12	Appropriate technology shall be used for maximum recovery of ore in order to reduce slurry discharge and to increase the life of the tailing dam.	The utmost care shall be taken to increase the life of the tailing pond by reducing the slurry discharge.

		Appropriate technology shall be adopted to accommodate maximum tailing in minimum space and recovery of iron rich material from the tailings shall enhance the life of the dam.
13	The iron ore transportation shall not be carried out through the road and there shall be no stack yard for collection of ore from various mines. The entire transportation shall be carried out through rail or conveyor.	<p>There will be no stock yard for collection of iron ore from various mines. However as per the amendment of condition No. xiii of EC No. J-11015 /876/ 2007- IA. II (M) dated 04.05.2009, transportation of iron ore fines will be done by road as per Letter of amendment (J-11015 / 876/ 2007-IA. II(M) dated 22.05.2013.</p> <p>The covered trucks carrying iron ore fines unload into a 3000TPH Truck Unloading System from where the fines get conveyed to the stack yard with series of closed conveyors and thus avoid substantial air pollution.</p> 
14	Plantation shall be raised in an area of 17.8 ha including a green belt of adequate width around the beneficiation plant and the tailing disposal area by planting the native species in consultation with the local D.F.O/Agriculture Department. The exposed tailing pond area shall be properly covered with vegetation.	<p>A total of 19659 nos. of native saplings were planted inside the plant till date a progressive greenbelt development plan has been proposed inside the plant premises to meet the requirement along with distribution of saplings to nearby communities.</p> 
15	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas, prone to air pollution and having high levels of SPM and RSPM, such as loading and unloading points and transfer points. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by CPCB.	Water sprinkling facilities have been provided in the air pollution prone areas like transfer points and material loading and unloading facilities to suppress fugitive dust, if any.

		<p>An automatic water sprinkling system has been installed across the length of the internal road.</p> 
16	<p>Regular monitoring of water quality for surface water sources as well as ground water sources shall be carried out. The ground water shall be monitored downstream of beneficiation plant as well as tailing dam up to ground water table and surface water monitoring shall be carried out in the upstream and downstream of the nallahs flowing in and around the project site, Baitani River and the Malda River and record of monitoring data should be maintained and submitted on six monthly basis to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, the Central Ground Water Authority, the Regional Director, Central Ground Water Board, the Central Pollution Control Board and State Pollution Control Board.</p>	<p>Summary of Half Yearly Env. Monitoring Reports for the period from <b>Oct'23 to Mar'24</b> shows no deviation to the prescribed standards set by SPCB.</p>
17.	<p>The Project Authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.</p>	<p>3 nos. Roof top Rainwater Harvesting structures for ground water recharge have already been implemented at MRSS Building, Production Shift office and BBECR Building.</p> 
18	<p>Regular Monitoring of the flow rate of the springs and perennial nallahs flowing in and around the project area shall be carried out and records maintained.</p>	<p>The project in no way obstructs/ affects the flow rate of the springs and perennial nallah.</p> <p>Flow of average 0.71m/s was being maintained in 6 months.</p>
19	<p>Regular Monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing piezometers in and around the project area during the beneficiation process. The periodic</p>	<p>Ground Water level monitoring has been carried out at nearby villages Dabuna and Khajuridihi with the help a network of piezometers.</p>

	<p>monitoring (at least four times in a year- pre-monsoon (April-May), Monsoon (August), post monsoon (November) and winter (January)); once in each season shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office at Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the ground water table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.</p>	<p>The ground water level analysis report shows the ground water level maintained within 1.96 to 10.6 Mt/bgl.</p>
20	<p>The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water required for the project.</p>	<p>Department of Water Resources, GoO has accorded permission to draw water from river Baitarani @ 1200m<sup>3</sup>/hr vide letter No. 34127 dated 24.12.2009 (already submitted to MoEF, BBSR earlier)</p>
21	<p>Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.</p>	<p>Total 3 nos. of Roof top Rainwater Harvesting structures installed for ground water recharge have already been implemented at MRSS Building, Production Shift office and BBECR Building. Also, the storm water drains are diverted to process water reservoir for water conservation and further utilization in process.</p>
22	<p>Appropriate mitigation measures shall be taken to prevent pollution of the Baitarni River and Malda River in consultation with the State Pollution Control Board.</p>	<p>Not applicable as the location of tailing pond has been changed to village Sankari of Phuljhar GP (as per ToR of MoEF &amp; CC).</p>
23	<p>Mineral Handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated</p>	<p>Dust suppression systems have already been installed at mineral handling areas and transfer points.</p> <p>18 high pressure water sprinklers have been installed in Material Handling Yard and feeding hoppers. Unloading hoppers also provided with high pressure mist forming water spray system.</p>
24	<p>The Project Proponent shall constitute an emergency management team under the control of Project In-charge to deal with the emergency situation pertaining to tailing dam for the timely and effective control of emergency situation. It</p>	<p>There shall be an emergency management team for combating any emergency pertaining to Tailing dam and the mock drills shall be carried out when the tailing pond comes into operation.</p>



	shall be ensured that training programme and mock drills shall be organized for the employees.	
25	Sewage Treatment Plant shall be installed for the colony. ETP shall also be provided for the workshop and the wastewater generated during the beneficiation process	<p>There is no Workshop &amp; Garage and hence no ETP is required. To take care of the domestic wastewater generated from Canteen and Transit Camp, a 15 KLD capacity STP is in operation which confirms the desired norms.</p> 
26	The Project Authorities should undertake sample survey to generate data on pre-project community health status within a radius of 1 km from the proposed project.	Since construction stage, AMNS India has been running a primary health center equipped with qualified doctors and paramedical staff for treating the people of peripheral villages that are situated within as well as beyond 1km of our Plant at Dabuna.
27.	Occupational Health Surveillance Program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Health records of the workers shall be maintained.	PME of employees and contractual workers has been carried out during 2023-24 at Apollo Hospital BBSR and Svasthya Laboratory respectively.
28	Pre-placement medical examination and periodic medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Pre-placement and periodic Medical Examinations are being undertaken by Company's Doctor as per schedule.
29	Land oustees and land losers/affected people shall be compensated and rehabilitated as per the National Policy on Resettlement & Rehabilitation (NPRR) of the project affected families.	Land acquisition has been done through IDCO and necessary compensation as per RPDAC has been deposited with the Collector, Keonjhar for disbursement. There is no displacement and hence no rehabilitation needed.

30	The Project Proponent shall take all precautionary measures during project operation for conservation and protection of endangered fauna namely elephant, bear etc. spotted in the area. Action Plan for conservation of flora and fauna shall be prepared in consultation with the State Forest and Wildlife Department. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to this project site shall be effectively implemented. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of the action plan shall be submitted to the Ministry of Environment & Forests and its Regional Office at Bhubaneswar.	An amount of Rs. 17.62 lakhs has already been paid to Forest Department towards contribution to Regional Wild Management Plan. Thus complied with.
31	Provision shall be made for the housing of construction laborers 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 house may be in the form of temporary structures to be removed after completion of the project.	Not applicable in operation stage.

## **B. General Conditions**

SL. NO.	CONDITIONS	COMPLIANCE STATUS
01	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Prior approval shall be obtained from the Ministry for any expansion.
02	Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the SPCB. At least four ambient air quality monitoring stations shall be established in the downward direction, as well as where maximum ground level concentration of SPM, RSPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the State Pollution Control Board. It will be ensured that at least one monitoring station is set up in up-wind and in down-wind direction	Summarized Half Yearly Environmental Monitoring Reports for the period from <b>Oct'23 to Mar'24</b> is ranged between the below values  PM10 values ranging from 55.5 to 63.6 complying SPCB norms of 100 µg/Nm <sup>3</sup> . • PM2.5 values ranging from 29.6 to 34.3 complying SPCB norms of 60 µg/Nm <sup>3</sup> . • SO <sub>2</sub> values ranging from 12.1 to 15.1 complying SPCB norms of 80 µg/Nm <sup>3</sup> . • NO <sub>x</sub> values ranging from 11.8 to 16.4



	along with those in other directions. The instruments used for ambient air quality monitoring shall be calibrated regularly.	complying SPCB norms of 80 µg/Nm <sup>3</sup> .
03	Data on ambient air quality (RSPM, SPM, SO <sub>2</sub> , NO <sub>x</sub> ) shall be regularly submitted to the Ministry including its Regional Office located at Bhubaneswar and the State Pollution Control Board/Central Pollution Control Board in six months.	Same as above
04	Measures shall be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in operations of HEMM etc. shall be provided with ear plugs /muffs.	The process is not noisy in nature however, through proper maintenance of equipment, the noise levels of work zones are kept below 85 dB(A). The 2MW stand by DG set has in-built silencer and acoustic chamber around it.  Ambient noise levels are well within the prescribed standards. Noise survey report of 6 months shows data ranging within 64.9 to 71.6 dB in day hours.
05	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422(E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Facilities like Process Water Reservoir and Multi-Stage Settling Pond/Pits for wastewater/surface run-off treatment have been provided. The treated wastewater is being utilized for process, plantation, fire safety and dust suppression measures.
06	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	The Iron Ore processing is a wet process. However, Workers working in dusty areas are being provided with dust masks and necessary training is being imparted to employees and contract workers. Occupational Health Check-ups (viz. Lungs Function Tests) of workers are being undertaken as per the norms.
07	Separate Environmental Management Cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the Organization.	A separate Environment Cell both at the project and company head office has been set up with well qualified and senior environment professionals.
08	The Project Authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closure and final	Part financial closure for Rs.4177.00 crores has been completed towards initial facilities of ISP (Phase-I) and Pellet Plant-12 MTPA at Paradeep,

	approval of the project by the concerned authorities and the date of start of land development work.	Beneficiation Plant at Dabuna and associated pipeline.
09	The fund earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office at located Bhubaneswar.	Funds earmarked for environmental protection measures are never diverted for any other purpose.  An amount of Rs.91.00 lakhs had been sanctioned for Env. Protection Measures for the 2021.
10	The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	We will extend full support to the Regional Office of MoEF, Bhubaneswar.
11	The Project Proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, Its Regional Office, Bhubaneswar, Central Pollution Control Board and State Pollution Control Board. The Project Proponent shall upload the status of compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests, Bhubaneswar.	Being submitted regularly. The previous Half-yearly compliance report had been submitted and uploaded on 01.06.2023 vide letter No. AMNS/DBN/HSE/23-24/05.
12	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion/ representation has been received while processing the proposal. The clearance letter shall also be put on the web site of the company.	Copy already submitted to the office of Sarpanch, Kalimati Gram Panchayat vide letter No. : ESOL/407/09 dated 25.05.2009.
13	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/ Tehsildar's Office within 30 days.	Complied with by SPCB, Odisha.

14	<p>The Project Authorities should advertise at least in two local News Papers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at the website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.</p>	<p>Complied (Already submitted in the first half yearly compliance) The newspapers are “Odia Bhaskar daily” dated 17.05.2009 and “The Pioneer” English daily dated 21.05.2009.</p>
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**NAME OF THE PROJECT** : Expansion of Iron Ore Beneficiation Plant from 10.7 MTPA (Throughput) to 16 MTPA (Throughput), AT - DABUNA, KEONJHAR BY M/S ARCELORMITTAL NIPPON STEEL INDIA LIMITED.

**CLEARANCE LETTER/S NO. & DATE** : 78693/31-IND/07-2022, Issued on- 14/03/2023

**PERIOD** : 1<sup>st</sup> Oct' 2023 TO 31<sup>st</sup> Mar' 2024

**A. SPECIFIC CONDITIONS:**

SL. NO.	CONDITIONS	COMPLIANCE STATUS
01	The transportation of ore from Ghoraburhani - Sagasahi Iron ore to Dabuna Beneficiation plant by road is allowed only for 3 years i.e. up to 19.08.2023 vide MoEF & CC, Gol, EC letter F.No. J-11015/192/2016-IA. II(M) dated 20.08.2020. No more road transportation is allowed after 19.08.2023 without permission of the MoEF&CC.	<p>The guidelines of CSIR-NEERI for transportation of iron ore from Ghoraburhani- Sagasahi Iron Ore mines to Dabuna Beneficiation Plant will be followed.</p> <p>In compliance to the specific condition, EC amendment application has been submitted on the Parivesh Portal vide Proposal No. SIA/OR/IND1/456864/2023 dtd. 28<sup>th</sup> Dec' 2023 and presented the proposal in front of SEAC Committee on 03<sup>rd</sup> Feb' 2024 and the application is under process.</p> <p>Similarly, as SEIAA has put this condition in connection with the specific condition stipulated in the Ghoraburhani- Sagasahi Iron Ore Mines pertaining to the transportation of iron ore from Mines to Dabuna Beneficiation Plant, EC amendment application has been submitted on Parivesh Portal vide Proposal No- SIA/OR/MIN/463852/2024 dtd. 23<sup>rd</sup> Feb' 2024. The amendment in EC Condition is accepted and approved by SEIAA as per the MoM published on dtd. 13<sup>th</sup> May' 2024.</p> <p>In the same deliberation, SEIAA has instructed to apply for Dabuna EC amendment with respect to the Road transportation and will consider the same, as per the procedure.</p>
02	The transportation of ore from Thakurani Iron ore mines to Dabuna Beneficiation plant. by road is allowed only for 3 years. No more road	In Thakurani mines, we are planning to establish a grinding facility with beneficiation plant & dedicated slurry pipeline to Dabuna Beneficiation

	transportation is allowed after 3 years without permission of the SEIAA, Odisha. From 4 <sup>th</sup> year onwards, the ore should be transported only through public railway siding through conveyor belt or as per the guidelines of CSIR-NEERI recommendation. PP shall inform SEIAA for any deviation in the proposed mode of transport of minerals in case the timeline is not complied with.	plant site and exploring the suitable lands for the above project.  As per the EC condition, the road transportation of iron ore from mines to Dabuna Beneficiation plant is allowed up to 3 years, i.e., till 2026.
03	In regard to other merchant mines from where ore will be sourced for Dabuna Beneficiation plant, the PP shall follow the guidelines of CSIR-NEERI recommendation for transportation of mineral.	We will adhere to the guidelines of CSIR-NEERI recommendations for transportation of iron ore.
04	The PP shall draw a project specific slime management plan for Dabuna Beneficiation plant to address tailing storage as per required safe design capacity and utilize them safely.	The tailing utilization study has already been conducted at CSIR-Institute of Minerals and Materials Technology (IMMT), Bhubaneswar, Odisha. After the commissioning of tailing dam, commercially and environmentally feasible recommendations shall be implemented.
05	The project proponent shall store the non-utilize grades as per IBM guidelines for future use.	We will adhere to the IBM guidelines.

## **B. Standard Conditions-**


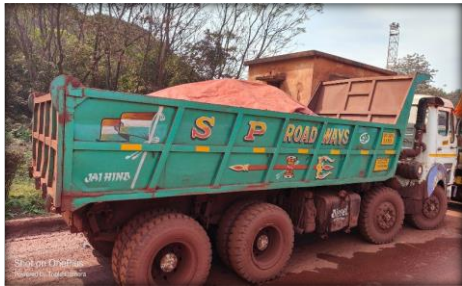
### **I. Statutory compliance:**

<b>SL. NO.</b>	<b>CONDITIONS</b>	<b>COMPLIANCE STATUS</b>
i	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Stage-I forest clearance (In-principal approval) for slurry pipeline of 16.463 ha have been obtained vide letter No.5-ORC496/2022-BHU, dtd. 25.01.2022 and Stage-I (In-principal) approval clearance for tailing pipeline of 12.728 ha have been obtained vide letter no. 5-ORC481/2021-BHU, dtd. 18.12.2023.
ii	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable



iii	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan 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. (incase of the presence of schedule-I species in the study area)	Site-Specific Conservation Plan & Wildlife Management Plan has been prepared and approved by the Chief Wildlife Warden, Bhubaneswar, Odisha. The total allocation of funds during the plan period is Rs.251.52 lakhs.  Payment against Demand for Site-Specific Wildlife Conservation Plan has been made to ORISSA CAMPA account vide RTGS UTR No: SBINR52023011927215182 on 19.01.2023.
iv	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.	CTE has been obtained vide no. 7067/IND-II-CTE-6235, on dtd.17.07.2019, valid for 5 years.
v	The project proponent shall obtain the necessary permission from the Central Ground Water Authority and other concerned authority, in case of drawl of ground water/ from the competent authority concerned in case of drawl of surface water required for the project.	Not applicable.  No drawl of ground water proposed.  Department of Water Resources, GoO has accorded permission to draw water from river Baitarani @ 1200m3/hr vide letter No. 34127 dated 24.12.2009 (already submitted to MoEF&CC, BBSR along with existing EC compliance reports).
vi	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Hazardous Waste Authorization has been obtained vide Authorization no. IND-IV-HW-1185/10103, dtd. 09.06.2022.



## **II. Air quality monitoring and preservation**

i	The project proponent shall install 24x7 continuous emission system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules, 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate this system from time to time according to equipment supplier specification through labs recognized under Environment(P) Act, 1986 or NABL	Not applicable, as it is a Beneficiation Plant with wet grinding circuit.
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	accredited laboratories.	
ii	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.	Summarized Half Yearly Environmental Monitoring Reports for the period of <b>Oct'23 to Mar'24</b> is ranged as per below values.  PM10 values ranging from 55.5 to 63.6 complying SPCB norms of 100 µg/Nm <sup>3</sup> . • PM2.5 values ranging from 29.6 to 34.3 complying SPCB norms of 60 µg/Nm <sup>3</sup> . • SO <sub>2</sub> values ranging from 12.1 to 15.1 complying SPCB norms of 80 µg/Nm <sup>3</sup> . • NO <sub>x</sub> values ranging from 11.8 to 16.4 complying SPCB norms of 80 µg/Nm <sup>3</sup> .
iii	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 in the plant premises is being monitored on monthly basis by NABL approved/accredited laboratory.
iv	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.	Water sprinkling facilities have been provided in the air pollution prone areas like transfer points and material loading & unloading facilities to suppress the fugitive dust emissions.  An automatic water sprinkling system has been installed across the length of the internal road.  
v	The project proponent use leak proof trucks/dumpers carrying ore and other raw materials and cover them with tarpaulin.	The iron ore fines are being transported from mines by leak proof trucks under tarpaulin cover.  
vi	Wind shelter fence and chemical spraying shall be provided on the raw material stockpiles.	Dust suppression systems (18 High pressure water sprinklers having a throw of 25m, pressure of 4.5 bar and with a spacing of 30 m) have already been provided in the raw material stock






		yard. 
vii	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.	We will adhere to the condition as and when required.
viii	The project proponent shall carry out conditioning of the ore with water to mitigate fugitive dust emission, without affecting flow of ore in the ore processing and handling areas.	<p>Conditioning of iron ore with water is being done at the mines to mitigate fugitive dust emission. This is a mandatory condition/important requirement during purchasing of ores from different mines.</p> <p>Dust suppression systems (18 High pressure water sprinklers having a throw of 25m, pressure of 4.5 bar and with a spacing of 30 m) have already been provided in the material handling areas.</p> <p>Moreover, High pressure mist forming water sprinklers have been installed at all the feed hoppers of the raw material stock yard and Truck Unloading Station along with the conveyor discharge chutes in the transfer houses are equipped for suppression of the fugitive dust emission.</p> 
ix	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of air pollutants such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the National	Truck Unloading Station along with the conveyor discharge chutes in the transfer houses are equipped with high pressure mist forming water sprinklers for suppression of the fugitive dust emission. All internal roads are concreted and automatic water sprinkling system has been installed across the length of the internal road and


	<p>ambient air quality standards.</p>	<p>working effectively.</p>  <p>Ambient air quality will be monitors through NABL accredited laboratory confirming to the NAAQ standards.</p>
<p>x</p>	<p>The transportation of mineral shall be carried out through the covered trucks. Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in beneficiation operations and in transportation of ore to the beneficiation plant. The vehicles carrying the mineral shall not be overloaded.</p>	<p>All trucks will be carrying the iron ore fines from mines under tarpaulin cover only. Pollution under control certificate (PUC) is a mandatory requirement for all vehicles entering into the plant premises and no overloading is permitted from mines as well.</p>
<p>xi</p>	<p>Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.</p>	<p>High pressure mist forming water sprinklers have been installed at all the feed hoppers of the raw material stock yard and Truck Unloading Station along with the conveyor discharge chutes in the transfer houses, and periodic maintenance is being carried as per the schedule.</p>
<p>xii</p>	<p>Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the SPCB. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM2.5, PM, SO2 and NOx are anticipated in consultation with the State Pollution control Board. It will be ensured that at least one monitoring station is set up in up-wind &amp; in down-wind direction along with those in other directions. The instruments used for ambient air quality monitoring shall be calibrated regularly.</p>	<p>Ambient Air Quality Monitoring stations have been installed in consultation with the State Pollution Control Board complying to the requirement of wind flow directions, and regular monitoring is being ensured.</p> 

xiii	Data on ambient air quality (PM2.5, PM10, SO2, NOx) shall be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board/Central Pollution Control Board once in six months.	The monitoring reports are being submitted on half yearly basis to Regional Officer, SPCB, Keonjhar and Head Office, SPCB, Bhubaneswar, Odisha.
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### **III. Water quality monitoring and preservation**

i	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.	<p>Ground Water Quality monitoring have been carried out by engaging NABL accredited laboratories, and ground water level have been carried out at nearby villages of Dabuna and Khajuridihi with the help of piezometers.</p> <p>The ground water level analysis report shows the ground water level maintained within 1.96 to 10.6 Mt/bgl.</p>
ii	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	<p>The domestic wastewater generated from Canteen and Transit Camp, a 15 KLD capacity STP is in operation to meet the desired norms.</p> 
iii	The project proponent shall practice rainwater harvesting to maximum possible extent.	<p>Total 3 nos. of Roof top Rainwater Harvesting structures installed for ground water recharge have already been implemented at MRSS Building, Production Shift office and BBECR Building. Also, the storm water drains are diverted to process water reservoir for water conservation and further utilization in process.</p> 

iv	The effluent from the ore beneficiation plant shall be treated in the tailing thickener and the tailings slurry shall be transported through a closed pipeline to the tailing pond.	The tailing thickener is already in place. The tailings will always be conveyed to the tailing dam through an underground pipeline.  The same will be complied when the tailing pond comes into operation.
v	The project proponent shall provide the slime disposal facility with impervious lining and collection wells for seepage. The water collected from the slime pond shall be treated and recycled.	Impervious lining and collection wells shall be provided during construction phase and the treated water shall sent back to Beneficiation Plant utilization in process.
vi	The garland drain shall be constructed around the tailing pond before start of operation of the project.	Garland drain is part of the design of the tailing dam, and we will ensure the same before it is commissioned.
vii	The decanted water from the tailing pond shall be re-circulated and there should be zero discharge from the tailing pond.	There will be no discharge from the tailing dam as the surplus water will be recycled and sent back to the Beneficiation Plant for reuse in process through return underground pipeline.
viii	Appropriate technology shall be used for maximum recovery of ore in order to reduce slurry discharge and to increase the life of the tailing pond.	Utmost care will be taken to increase the life of the tailing pond by reducing the slurry discharge.  Appropriate technology will be adopted to accommodate maximum tailing in minimum space and recovery of iron rich material from the tailings shall enhance the life of the dam.
ix	Garland drains with appropriate size, gradient and length shall be constructed to arrest silt and sediment flows from ore dumps and directly into the water bodies. The water so collected shall be utilized for watering the roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	Provision of garland drains are already provided in Beneficiation Plant of appropriate size and gradient around the material yards which are being desilted on regular basis.    We will ensure the construction of garland drains around the tailing dam when comes into operation.

x	Effluent Treatment Plant should be provided for treatment of wastewater generated from the beneficiation plant.	No wastewater/industrial effluents are getting generated from the Beneficiation Process and hence ETP is not required.
xi	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.	Garland drains and collection pits are provided around stock yards and emergency stock yards and these are connected to the process water reservoir, which has capacity to cater the surface run- off in the event of heavy rain. Monitoring of surface water is being ensured through NABL accredited laboratory.
xii	Adhere to "Zero Liquid Discharge".	The Zero Liquid Discharge concept is strictly complied with at site.
xiii	Regular monitoring of water quality for surface water sources as well as ground water sources shall be carried out. The groundwater shall be monitored downstream of beneficiation plant as well as tailing pond upto groundwater table and record of monitoring data should be maintained and submitted on six monthly basis to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, the Central Ground Water Authority, the Regional Director I Central Ground Water Board and the State Pollution Control Board.	Ground Water level monitoring have been carried out at nearby villages Dabuna and Khajuridihi with the help of a network of piezometers.  Surface water and ground water quality monitoring is being carried out by engaging NABL accredited laboratories and report being regularly submitted to the concerned authorities.
xiv	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Total 3 nos. of Roof top Rainwater Harvesting structures for ground water recharge have already been implemented at MRSS Building, Production Shift office and BBECR Building.  
xv	Appropriate mitigative measures shall be taken to prevent pollution of the nearby surface water source in consultation with the State Pollution control Board.	Appropriate measures have been taken to prevent pollution to the nearby water sources. There is no way water is allowed to go beyond plant premises. All the process and surface runoff are



		recycled completely in process.
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#### **IV. Noise monitoring and prevention**

i	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office, MoEF&CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha as a part of six-monthly compliance report.	<p>The process is not noisy in nature however, through proper maintenance of equipment, the noise levels of work zones are kept below 70 dB(A). The 2 MW stand by DG set has an in-built silencer and acoustic chamber around it.</p> <p>Ambient noise monitoring is being ensured through NABL accredited laboratory.</p> <p>Noise survey report of 6 months shows data ranging within 64.9 to 71.6 dB in day hours.</p>
ii	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during daytime and 70 dB(A) during night time.	<p>We are adhering to the standards prescribed w.r.t. ambient noise during day and nighttime. The ambient noise levels are far within the prescribed limits.</p> <p>Ambient Noise monitoring report of 6 months are ranging between 64.9 to 71.6 dB in day hours. and 55.5 to 62.2dB. in night hours.</p>


#### **V. Energy Conservation measures**

i	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:	<ul style="list-style-type: none"> <li>• Noted, we are exploring the feasibility and planning for installation of rooftop solar panels on buildings and different common areas inside plant premises.</li> <li>• Apart from this, multiple solar streetlight project has been taken up in the nearby areas, to make commute during night convenient. 30 units of solar streetlights have been installed at Sankari village at three hamlets.</li> <li>• In this drive 74 households of this village also provided with solar home light systems making every household illuminated.</li> </ul>
ii	Provide LED lights in their offices and residential areas.	LED lights have been provided in Offices, streetlights and in residential areas.

## VI. Waste management

i	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016	Hazardous Waste are being disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016
ii	Kitchen waste shall be composted or converted to biogas for further use to be decided on case to case basis depending on type and size of plant)	Kitchen wastes are being handed over to Municipality for composting purpose and garden waste are being dumped in earthen pits for use as manure in horticulture activities.
iii	Separate impervious concrete pits for disposal of sludge shall be provided for the safe disposal of sludge generated from the beneficiation operation.	The tailings generated from Beneficiation Plant will be processed through the tailing thickener and pump to tailing pond, after its construction.

## VII Green Belt and EMP

i	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.	<p>A total of 19659 nos. of native saplings were planted inside the plant till date and a progressive greenbelt development plan has been proposed inside the plant premises to meet the requirement along with distribution of fruit bearing saplings to nearby communities.</p> 
ii	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.	As per the current operational practice, there is no major emission of GHG from the process. But keeping in view the sustainable goals and current climate scenario, we are continuously working on the direction for reduction of GHG emission viz. development of greenbelt, exploring feasibility for solar power generation etc.




iii	Plantation shall be raised all around the beneficiation plant site and the tailing pond around the plant, tailing disposal area, roads etc. by planting the native species in consultation with the local DFO/ Agriculture Department.	Plantations have been raised at different locations of Beneficiation Plant, the same will be followed , in consultation with local DFO for tailing pond and other mentioned areas when it commences operation.
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### **VIII. Public Hearing & Human Health Issues**

i	The activities proposed and submitted in EIA/EMP report for action plan prepared for addressing the issues raised during the public hearing shall be completed as per the budgetary provisions and within a stipulated time frame of five years. The Status Report on implementation of action plan for compliance of public hearing issues shall be submitted to the concerned Integrated Regional Office of the Ministry along with District Administration	It will be complied as per the action plan given in the EIA/EMP Report.
ii	Issues raised and recorded in proceedings of public hearing w.r.t. environment. Pollution/ CER shall be complied by PP as per OM F. No. 22-65/2017-LA.III, dated 30.09.2020 of MoEF&CC, Govt. of India.	It will be complied in line with the action plan given in the EIA/EMP Report.
iii	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	It will be prepared once tailing pond comes into operation.
iv	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.	It will be adhered at the time of construction phase.
v	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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project,	It will be complied at the time of construction phase.


vi	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	For Beneficiation Plant, PME of employees and contractual workers has been carried out during 2023-24 at Apollo Hospital BBSR and Svasthya Laboratory respectively. Same shall be planned for Tailing dam when construction work begins.
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## IX. Corporate Environment Responsibility

i	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22 - 65/2017.1 All dated 1 May 2018, as applicable, regarding Corporate Environment Responsibility.	Noted, will be implemented as per the commitment.
ii	The company shall have a well-laid environmental policy duly approved by the Board of Directors. The environmental policy should prescribe 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 a 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 Integrated Regional Office, MoEF&CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha as a part of six-monthly report.	<p>Environment Policy has been signed by CEO and released in March 2023. Same is attached as</p> 
iii	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 report to the head of the organization.	A separate Environment Cell both at the project and company head office has been set up with well qualified and senior environment professionals.
iv	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.	Will be complied as per submitted action plan and year wise programme of implementation of action plan will be submitted along with six monthly compliance report.

	Year wise progress of implementation of action plan shall be reported to the Regional Office, MoEF&CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha along with the Six-Monthly Compliance Report.	
v	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out for the project.	Noted, will be complied.
vi	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented.	Noted, will be implemented as per the CREP guidelines.

## **X. Miscellaneous**

I	The project proponent shall make available to 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.	Public Notice has been advertised/published pertaining to obtaining of Environment Clearance in two local newspapers (Samaj, Sambad, Odisha Post, Indian Express Bhubaneswar edition etc on 23.03.2023 and uploaded in the company website permanently from 14.03.2023.  
ii	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.	The copies of Environmental clearance have been submitted to the head of local bodies and panchayat office.

iii	It shall be mandatory for the project management to submit half yearly compliance reports on the status of implementation of the above stipulated environmental safeguards to the SEIAA, Odisha / Integrated Regional Office of the MoEF& CC, Bhubaneswar in soft copies on 1 <sup>st</sup> day of June and December of each calendar year. The proponent shall also upload the compliance report including results of monitored data, as applicable in the website of the Ministry for monitoring of EC Conditions, failing which EC is liable to be revoked.	Being submitted regularly. The previous Half-yearly compliance report had been submitted and uploaded on 27.11.2023 vide letter No. AMNS/DBN/HSE/23-24/10
iv	The construction and demolition wastes to be generated from the proposed project shall be disposed of in accordance with the provision under "Construction & Demolition Wastes Management Rules 2016".	Noted and will be adhered to at the construction phase.
v	The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Govt. of India, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO, NO, (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The compliance status of Environmental Clearance conditions, including results of monitored data have been submitted in every six months to the regional office, MoEF&CC and uploaded in website.
vi	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.	The half yearly compliance report is being uploaded on the website of MOEF & CC (Parivesh portal).
vii	The environmental statement for each financial year ending 31 March in Form-V as is mandated to be submitted by the project proponent to the Odisha State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as	The environmental statement for the existing operation in Form-V (2022-23) has been submitted to the Odisha State Pollution Control Board on 25.09.2023 vide no. AMNS/DBN/HSE/2023-24/09 and same is being

	amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective to the MoEF & CC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	uploaded in the company website.
viii	The project proponent shall inform the Regional Office, MoEF&CC, Govt. of India. Bhubaneswar as well as SEIAA, Odisha 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.	It will be informed at the time of commencement of operation.
ix	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted and will be complied.
x	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the State Level Expert Appraisal Committee & SEIAA	Noted and will be complied.
xi	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Odisha.	Noted and will be adhered to.
xii	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 and will be adhered to.
xiii	The SEIAA, Odisha may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted and will be adhered to.
xiv	The SEIAA, Odisha reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted and will be complied.

xv	The Regional Office, MoEF&CC, Govt. of India, Bhubaneswar 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 and will be adhered to.
xvi	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.	Noted and will be adhered to.
xvii	This Environmental Clearance (EC) is subject to orders/judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.	Noted and will be complied.
xviii	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.	Noted and will be complied.





ArcelorMittal Nippon Steel India

ArcelorMittal Nippon Steel India Limited  
**Corporate Social Responsibility**

Half-Yearly Report, Oct'23 – Mar' 24

Dabuna Location



**SMARTER  
STEELS  
BRIGHTER  
FUTURES**



## 1. HEALTH INITIATIVES

### Project Aarogya:

#### 1.1 Providing health care services through Medical Health Centre, Dabuna

AM/NS India, Dabuna contributing towards health by providing preventive and curative health care service through Dabuna First Aid Medical Centre. The centre is well equipped with professional medical staffs along with 03 ambulance vehicles for referral services in case of any emergency. Communities residing in villages of Dabuna, Purunadihi, Khajuridihi, Katupali, Bada Kalimati, Naibuga etc. were benefited from the project. In this period 6519 patients (Male – 3673, Female – 1533, Children – 1001, Old - 312) availed treatment in this quarter. Patients were offered free medicines, diagnosis, pathological tests.



#### 1.2 Providing Ambulance Services



AM/NS India, Dabuna providing ambulance services to provide better and timely accessibility of better medical services to people from Dabuna area on emergency critical and non-critical cases, or any type of accidents and patients transportations. Ambulance services provided to get better health care facility at DHH Keonjhar, Kalimati PHC. Our aim is to save patients by providing better health services. In this period total 169 no patients benefitted from Ambulance referral services.

#### 1.3 Conducted health camps at Sankari village



AM/NS India conducted 6 no free medical health camps at Sankari village in this period. The objective of conducting health camp is to create awareness of general health among the villagers, provide general health care services and counselling. A total 502 patients including men, women and children of different health problems were advised by the doctor and provided free medical check-up and medication to the villagers.

## 2. EDUCATION INITIATIVES

### Project PadhegaBharat:

#### 2.1 School Bus Support to Students

AM/NS India Dabuna is making educational services accessible in rural area by providing 32 seater school bus under CSR initiatives to ensure no students in village miss school because of non-availability of transport facility. The school bus service has been provided to the students of Dabuna, Badakalimati area to continue their education in Bamebari school. 32 children of Badakalimati, Purunadihi and Dabuna village are getting benefit from the intervention under the flagship PadhegaBharat project of AM/NS India.



#### 2.2 Nutrition Support to Residential School, Telkoi - Keonjhar



For good health and continuation of education of the vulnerable children AM/NS India, Dabuna is supporting a residential tribal school housing orphan and half-orphan children of Juang tribe with nutritious meals for 54 tribal children enrolled in the school. This has enabled effective functioning of the institute and encouraged children to continue their education.

#### 2.3 Deployment of 6 Community Teachers in 4 Schools

AM/NS India Dabuna has deployed six community teachers in Govt. schools in Dabuna and Basantpur. The objectives of the support is to promote quality of education. This initiative is benefitting 350 children. The community teachers are supplementing the government teachers deputed in the assigned schools.



#### 2.4 Bus support to Shree Gupteswar High School for board exam

Every year AM/NS India provides arrangement of transportation bus facility for the students of Shree Gupteswar High School, Dabuna for appearing the 10th board exam as promotion of education is one of the key thrust areas and AM/NS India is committed to support, excel and perform well in examination and career as well. This year also provided bus for appearing board exam. 35 students benefitted from the support.





## 2.5 Spread road and home safety awareness at Shree Gupteswar High School, Dabuna

AM/NS India, Dabuna conducted awareness program at Shree Gupteswar High School, Dabuna on Road and Home safety. The training session imparted in collaboration with Safety department – AM/NS India, Dabuna. Sh. Debadatta Das – Head, Safety & Environment explained on road and home safety such as road safety rules, road & traffic signs, home & electrical safety were covered. In the programs gift distributed to students who participated in the quiz session. 60 students and teachers attended in the program. This gesture was appreciated by the School Management Committee, headmaster and teachers.



## 2.6 Distribution of student's desk at Sankari & Dabuna

Supported 50 no of desk to Govt. Primary School, Sankari and Indira Smruty Bidya Pitha, Dabuna camp under CSR initiative to encourage students as well as to promote quality of education. Approx. 100 nos. of students were benefited under the program. This support will promote educational infrastructure in schools.



## Project Digital Pathshala:

### 2.7 Installation of Digital Smart Classrooms

AM/NS India has contributed towards installation of digital smart class rooms at Naibuga and Badakalimati Govt. schools to enhance the educational quotient. The smart class rooms will work without any internet connection. The smart class room system is well equipped with solar system and battery backup for hassle free operations without electricity supply. Training also given to Teachers how to operate the smart TVs. Also, provided 30 students desks and painted the classroom with fixing of lights and curtains in windows. The project will be benefited to 200 students.



### 3. LIVELIHOOD AND SKILL DEVELOPMENT INITIATIVES

#### Project Daksh:

#### 3.1 Digital skill centre set up by AM/NS India inaugurated at Keonjhar

In a major CSR initiative of ArcelorMittal Nippon Steel India (AM/NS India), a Digital Skilling Center was inaugurated on 18<sup>th</sup> January 2024 at Keonjhar. The centre was inaugurated by the Chief Guest, Shri T S Shanbhogue, Executive Director, Strategic Projects. Present on the occasions from AM/NS India were, Shri Jaiwardhan Paroha, Plant Head - Dabuna unit, Shri Shailendra Sah, Project Head - Tailing Dam, Dr. Vikas Yadvendu, Head CSR, Shri Sunila Das, Head HR - Odisha among others. Shri Arun Kumar Panda, representative from District Employment Office, Keonjhar present and graced the event. In the first phase, 200 youths have been planned to be trained in this Digital Skill Center from the nearby villages of Keonjhar district. Post enrolment in the first batch, the trainees will be counselled and inducted into a 440 hours of training programme and will be trained in job roles of Domestic Data Entry Operators and Domestic IT Helpdesk attendant. It will include theoretical and practical training along with industrial visits.



#### 3.2 Meeting with SHG Members at Dabuna and Sankari village

AM/NS India empowering women through strengthening SHGs. We organize meeting with SHG members of Dabuna and Sankari village regular basis to facilitate training and ensuring access to a dynamic and enabling environment for growth and learning for the women SHG members.





## 4. SPORTS PROMOTIONS INITIATIVES

### Project Udaan:

#### 4.1 Organized Volleyball tournament at Katupali village

Every year AM/NS India organises inter district volleyball tournament in Katupali village. This year the tournament held on 7<sup>th</sup> February 24 at Hatimara ground. 8 teams from different district participated in the tournament. The tournament was a one day and night match. Various dinitaries including Block Development Officer Champua, AM/NS officials, PRI members and nearby community witness and success the event. A huge gathering of youth sensed during the tournament. Approx. 800 villagers have watched the tournament.



#### 4.2 Support provided for organizing Cricket tournament at Kalimati

AM/NS India supported for organizing 2<sup>nd</sup> knockout cricket tournament under CSR initiatives. In this tournament 16 teams of nearby villages participated. This initiatives aims to promote youth engagement, foster health competitions, and encourage physical activity.



#### 4.3 Organized Annual Sports Event at Indira Smruti Bidyapitha Dubuna, Camp

Annual Sports eventy was organized at Indira Smruti Bidyapitha School, Dabuna on 31<sup>th</sup> January 2024 in which all the students around 50 nos. from class 6<sup>th</sup> to 7<sup>th</sup> participated with great fervour and manifested their athetics with an unimpeachable finesse. The event was supported by AM/NS India under the CSR initiatives. Also, AM/NS India provided tracksuit to all students.



## 4.4 Organized Annual Sports Event at Shree Gupteswar High School, Dabuna

24<sup>th</sup> Annual Sports Meet 2023-24 was organized at Shree Gupteswar High School, Dabuna on 19<sup>th</sup> December 2023 in which all the students from class 8<sup>th</sup> to 10<sup>th</sup> participated with great fervour and manifested their athletics with an unimpeachable finesse. The event supported by AM/NS India under the CSR initiatives. Also, provided 50nos. of Jersey to the all students.



## 4.5 Support of sports materials to youths

AM/NS India supported sports materials to the youth of Sankari village as a part of CSR initiatives. It included like footballs, volleyball, neat Jersey etc. Sports materials handed over to the village youths by Inada San – Director, AM/NS India and Sailendra Sah – Project Head, Tailing Dam. Youths are now equipped to explore sports and enhance their physical skills.



## 4.6 Support for knock-out Football Tournament

AM/NS India Dabuna supported for organising knock-out football tournament – 2023, organised by Tikarpada Youth Club, Sadar. We are dedicated to promoting sports and nurturing grassroots talent in rural areas. Sports play a crucial role in shaping individuals in grassroots. 500 youths benefitted.





## 5. INFRASTRUCTURE DEVELOPMENT INITIATIVES

### Project Nirman:

#### 5.1 Construction of approach road at Sankari village

To strengthen rural infrastructure AM/NS India is contributing towards road construction under its CSR initiatives at Sankari village. The approach road construction around 900 meters to main habitation work is under progress.



#### 5.2 Upgradations of the existing transformer

AM/NS India upgraded the exiting electricity transformer from 16KVA to 63 KVA under CSR initiatives to strengthening the electric supply network at Sankari Village as the voltage level at Sankari village is very low. The work is completed. 500 villagers will be benefitted from these initiatives.



#### 5.3 Construction of Thakurani House at Sankari village

AM/NS India contributing towards the construction of Thakurani housework at Sankari village is under progress. The objective of the project is to upliftment of the rural infrastructure.



#### 5.4 Construction of Community Hall at Purunadihi

AM/NS India has constructed a community hall at Purunadihi village. Nearly 1,000 people from the village will benefit from the intervention. The community hall will be utilized by villagers to conduct social gatherings, meetings, and community functions.



### Project Trupti:

#### 5.5 Supplying of Drinking Water through tanker

To address the pressing issue of water scarcity in nearby villages of Dabuna unit. AM/NS India is facilitating the supply of drinking water through 2no. of water tankers to the nearby villages of plant vicinity area. Also, to meet the community water requirement, we are operating four borewells operated by 4 operators appointed by us. The activity enabled access to clean drinking water to more than 5,000 people of the villages Dabuna, Purunadihi,





Katupali etc located in and around the Dabuna plant every month.

## 5.6 Drinking Water Supply at Shree Gupteswar High School - Dabuna

To provide clean drinking water AM/NS India has installed one Drinking Water supply unit with borewell and 2000-liter water tank, water dispensing points at Shree Gupteswar High School, Dabuna. The initiative is an important step towards a healthier future in Govt. schools. We try to ensure that the basic requirement of safe & clean drinking water for school-going students in schools. The initiative will be helping to ensure higher attendance in the schools and good health of the students and staff. Through this initiative, we aim to nourish dreams and foster a brighter & healthier future. 150 students will be benefitted.



## 5.7 Installation of Solar Street Lights and Home Lighting Systems in Sankari

Multiple solar streetlights have been taken up in Sankari village to make commute during night convenient. More 04 units of solar streetlights have been installed at Sankari village as requested by the villagers.

Also, the villagers used to face regular power failure due to remote location and power cut off for elephant movement in the area. More 04 households of Sankari village also provided with solar home light systems making every household illuminated.



## 6 OTHER INITIATIVES

### 6.1 Senior Management visited Sankari and appreciated CSR interventions.

Mr. Inada San\_Director - AM/NS India, Mr. Shailendra Sah Head Project - Tailing Dam visited Sankari village and seen the CSR activities such as health camp, culvert work, solar streetlight, home light systems, hand pump work. Mr. Inada San appreciated the CSR initiatives.



### 6.2 Distributions of Utensils & Tent materials

AM/NS India has distributed utensils and tent materials to the villagers of Sankari. The objectives is to provide utensils to enhance their capacity to organize community events. 500 villagers of Sankari will be benefitted.



### 6.3 Livelihood support

AM/NS India Dabuna provided financial assistance to the family of deceased for performing funeral rites at Sankari village as requested by the Smt. Rahasa Nayak villagers of Sankari for her father funeral.

### 6.4 Supported for organizing various Cultural programs and community festivals

AM/NS India extends support towards organizing various cultural programs, community festivals under promotions of cultural activities to make the local community aware and feel their cultural value to enhance societal brotherhood. We support to observe and celebrate several cultural events conducted by villagers. Large number of people have been engaged and benefitted through this cultural supports. In this period supported cultural events are mentioned below:

- Cultural support provided for celebration of Thakurani Osha puja - Purunadihi village. Observed from 28<sup>th</sup> Dec'23 to 5<sup>th</sup> Jan'24 at Purunadihi village. Approx. 1000 villagers participated in the Thakurani Osha Puja.
- Cultural support provided for celebration of Thakurani Osha puja – Sankari village. Observed on 17<sup>th</sup> – 19<sup>th</sup> January at Sankari village. 700 villagers participated in the Thakurani puja.
- As requested by the villagers Handibhanga, Bada kalimati Panchayat, support has been provided for observing Makara mela observed from 14<sup>th</sup> – 18<sup>th</sup> January 24 at Handi Bhanga Mela ground. More than 1500 villagers from nearby villages viewed the mela.



- As request received from DFO, Keonjhar, AM/NS India extend support towards organizing Regional Herbal Fair organized by DFO, Keonjhar from 15<sup>th</sup> – 19<sup>th</sup> February held at Kali Padia, Keonjhar.
- Cultural support provided for celebration of Thakurani Osha parba – Dabuna village. Event observed on 28<sup>th</sup> – 29<sup>th</sup> December 2023 at Dabuna. 2000 villagers witnessed the event.
- Support provided to Basantpur village for observing Radha Krushna Utsav. Observed on 5<sup>th</sup> – 6<sup>th</sup> December 2023 at Basantpur village. 1000 villagers participated in the program.
- Support has been provided to Dabuna and Katupali village for observing Rasa Purnima. Dabuna village event celebrated from 26<sup>th</sup> – 28<sup>th</sup> November 2023 and 2000 villagers participated. Katupali event celebrated on 27<sup>th</sup> November 2023 and more than 2000 villagers witnessed the program.
- Support has been provided to Sankari village for celebration of Karma festival on 29<sup>th</sup> December 2023. 500 no villagers participated the Karma festival.
- Cultural support provided for celebration of Mage Parab Basantapur village. Observed from 22<sup>nd</sup> – 24<sup>th</sup> February 24 at Basantpur. More than 500 villagers participated.



## 6.5 Other support provided for various development works

- 2 days grass cutter and manpower support provided to Shree Gupteswar High School, Dabuna as requested by the headmaster for beautification work of the school.
- Loader & JCB has been supported to Katupali village for development and repairing of the playground.
- JCB has been provided to Katupali village for development and repairing of the ground as request received from villagers.
- JCB has been provided for development of Kalimati cricket ground.
- JCB has been provided to Saraswati Sisu Mandir school, Dabuna for development of playground.
- JCB has been provided for ground clearing work for a marriage function at Dabuna village.
- JCB has been provided for development of hatimara volleyball ground.
- JCB & Loader has been provided to Saraswati Sisu Mandir school, Dabuna for development of playground and school premises. 100 students benefitted.
- JCB has been provided for ground clearing work for a marriage function at Dabuna Basti.



