

Ref. No.: AMNS/PDP/ENV/25-26/09

Date: 26.05.2025

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 compliance report to the conditions of following Environmental Clearance of M/s ArcelorMittal Nippon Steel India, Pellet Plant, Paradeep, Odisha for the period from October 2024 to March 2025.

- i. 6 MTPA Iron Ore Pellet Plant vide no. J-11011/129/2007-IA II(I), dated 29.05.2008.
- ii. Completion of balance work of 6 MTPA Pellet Plant (Unit-2) of 12 MTPA Pellet Plant vide no. J-11011/129/2007-IA II(I), dated- 17/07/2021.

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, Pellet Plant at Paradeep, Odisha vide letter no. J-11011/129/2007-IA II(I), dated 29.05.2008. for its 6 MTPA Iron Ore Pellet Plant at Paradeep and vide letter no. J-11011/129/2007-IA II(I), dated- 17/07/2021 for Completion of balance work of 6 MTPA Pellet Plant (Unit-2) of 12 MTPA Pellet Plant at Paradeep, Odisha for the period from October 2024 to March 2025.

This is for your kind perusal.

Thanking you

Yours faithfully

For ArcelorMittal Nippon Steel India



Suresha G

Executive Director –Odisha Operations

Encl.: As above

Copy to:

1. Member Secretary, Odisha State Pollution Control Board, Bhubaneswar, Odisha.
2. Member Secretary, Central Pollution Control Board, Zonal Office, Kolkata, West Bengal.
3. Regional Office, Odisha State Pollution Control Board, Paradeep, Odisha.

NAME OF THE PROJECT :6 MTPA IRON ORE PELLET PLANT LOCATED AT PARADEEP, DIST.- JAGATSINGHPUR, ODISHA OF M/S. ARCELORMITTAL NIPPON STEEL INDIA LIMITED

CLEARANCE LETTER/S NO. & DATE : J-11011/129/2007-IA II(I), dated 29.05.2008 and name change dated 24.06.2021 (Proposal No-IA/OR/IND/206293/2021 dated 16.06.2021)

PERIOD : 1st October 2024 to 31st March 2025

A. SPECIFIC CONDITIONS:

Sl. NO.	CONDITIONS	COMPLIANCE STATUS
i)	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted.	Action plan is already submitted through the 1st compliance report and RSPM level is well within the permissible limit. • NABL Accredited agency has been engaged for monitoring of ambient air quality on monthly basis. • The monitoring report is being submitted to SPCB on monthly basis and Regional Office, MOEF & CC, Bhubaneswar on half yearly basis. • The average values of env parameters are as below • PM10 values ranging from 52.53 to 62.71 complying SPCB norms of 100 µg/Nm3. • PM2.5 values ranging from 24.73 to 28.06 complying SPCB norms of 60 µg/Nm3. • SO2 values ranging from 19.47 to 22.89 complying SPCB norms of 80 µg/Nm3. • NOx values ranging from 26.77 to 27.58 complying SPCB norms of 80 µg/Nm3.
ii)	On-line stack monitoring facilities for all the stacks and sufficient air pollution control devices provided viz. ESP, bag filters, scrubbers, cyclones etc. to control emissions from all the sources including captive power plant shall be provided to keep emission levels below 100 mg/Nm3 and report submitted to the Ministry 's Regional Office at Bhubaneswar, CPCB and OPCB.	• Online stack monitoring facility (CEMS) have been installed in all the stacks. • The real time data are being transmitted to SPCB and CPCB through Real Time Data Acquisition System (RTDAS). • Air pollution control devices like ESP, Bag filters & wet scrubbers are in operation to maintain the emission within the prescribed norms. • Monitoring report is being submitted to SPCB on monthly basis and Regional Office, MoEF on half yearly basis. • The stack monitoring report for the period of Oct'24- Mar'25 PM Value 28.95 mg/Nm3 Within Range
iii)	Gaseous emission levels including secondary fugitive emissions from blast furnace, sinter plant and power plant shall be controlled within the latest permissible units issued by the ministry and regularly monitored. Guidelines / code of practices issued by the CPCB shall be followed and	Not Applicable.

	report submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and OPCB.	
iv)	In-plant control measures for checking fugitive emissions from all the vulnerable sources like Sinter Plant, BF, BOF Shop and Steel melting shop etc. shall be provided. Further specific measures like water sprinkling and dry fogging shall be carried out at the stockpiles of raw material, stacker reclaimer, conveyor transfer points and vibrating screens etc. Fume extraction system in steel refining units shall also be provided. Centralized de-dusting system i.e, collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriately designed and height conforming to the standards of induction furnaces in the industry shall be provided. Fugitive emissions shall be controlled, regularly monitored and records maintained.	- The existing facility is a Pellet Plant, hence facilities like sinter plant, BF, BOF shop & steel melting shop are not part of the Pellet Plant process. Water sprinklers have been provided in the stockpile area, stacker/ reclaimer areas, conveyor transfer points, and vibrating screens to reduce the fugitive emissions. - A Fog Canon of capacity 25 lpm with a throw of 30m and a working pressure of 18 bar is in operation. In addition to this, Dry Fog Dust Suppression system have been installed in different product conveyor points to control over the fugitive emission.  
v)	Electrostatic Precipitator (ESP) shall be provided to Pellet Plant, Blast Furnace (BF), Sinter Plant and Power Plant and particulate emissions shall not exceed 100mg/Nm³. Gas Cleaning Plant shall be provided to BF. Bag filters shall be provided to Pellet Plant, BF, SMS, Lime and Dolomite Plant. Gas recovery holder and secondary air exhaust with bag house shall be provided to SMS. Dust suppression system shall be provided to raw material storage and handling area, Sinter Plant. Emissions from transfer points in material handling plant shall be controlled by dust extraction system.	- The Pellet Plant is provided with high efficiency ESPs with an additional field, to meet the standard norms. - High-capacity bag filters have been installed in Additive Grinding Building, Bin & Mix Building. High-capacity wet scrubber type Dust Extraction System (DES) have already been installed at Hearth Layer Separation Building (HLSB), Indurating discharge end and indurating feed end, which is working efficiently. - The existing facility is a Pellet Plant, hence BF and SMS are not part of the Palletisation process. - High efficiency water sprinklers have been installed in the iron ore fines stock yard, bentonite, coke breeze and lime stock yards to reduce the fugitive emissions.

		
vi)	Total requirement of water from Taladanda Canal shall not exceed 2582 m³/hr. The wastewater from Blast Furnace and steel melting shop shall be treated in effluent treatment plant (ETP). The acidic and alkaline wastewater from De-mineralization Plant shall be treated in neutralization pit, scale pit, settling tank, filters and oil skimmers shall be provided to continuous casting shop. All the treated wastewater shall conform to the norms prescribed by OPCB /CPCB and Ministry under E(P) Act. The domestic wastewater after treatment in STP shall be used for green belt.	For the operation of 6 MTPA Pellet Plant, total water requirement is 432 cum/hr. Out of which, 378 cum/hr is from slurry water and remaining 54 cum/hr meet through the water drawl from Taladanda canal. A STP of 15 KLD capacity has already been installed and in operation to treat the wastewater generated from both the canteens. Treated water from STP is being used in gardening purpose. 
vii)	Prior permission for the drawl of 2582 m³/hr of water from Taladanda Canal from the concerned department shall be obtained.	Permission for drawl of water from Taladanda Canal @ 3550m³/hr has been obtained vide Letter No.12432/WR/Irr-II-WRC-22/07dated 18.04.2007, from the Department of Water Resources (DoWR), Govt. of Odisha.
viii)	Ground water monitoring around the solid waste disposal site/secured land fill (SLF) shall be carried out regularly and report submitted, and report submitted to the Ministry's Regional Office at Bhubaneswar, CPCB, OPCB.	As the existing facility is only a pellet plant unit, hence there is no requirement of solid waste disposal site/secured landfill (SLF) site. Ground water monitoring is carried from the tube well on monthly basis and report submitted to SPCB, Odisha on monthly basis and Regional Office, MoEF & CC on half yearly basis. The ground water level analysis report shows the ground water level maintained within Limit
ix)	ESP fines from the Pellet Plant shall be recycled and reused in the Pellet Plant. Sludge from BF Plant, slag and dust from steel making shop shall be used in the Sinter Plant. All the Blast Furnace (BF) slag shall be	ESP fines from silo of the Pellet Plant are collected in wet slurry form and send to thickener for reuse in process. Used Oil/Waste Oil generated during the maintenance activities is being sold to the authorized recycler/re- processor.

	granulated and provided to cement manufacturers. Splashes, skull and scale from the BF Plant shall be used in Steel Making Shop. Scrap from the slab caster shall be used in steel making. SMS slag shall be used in the Sinter Plant. All other solid wastes shall be properly disposed off in environment friendly manner. Used oil shall be sold to recyclers.	
x)	A time bound action plan shall be submitted to the Ministry and its Regional Office at Bhubaneswar to reduce solid wastes, its proper utilization and disposal.	The major solid waste generated from the Pellet plant is iron ore fines, which is completely recycled back into the process.
xi)	As proposed, green belt shall be developed in 485 acres out of total 1925.42 acres and efforts shall be made to develop green belt further to cover 33% area within and around the plant premises as per the CPCB guidelines in consultation with DFO.	- Total Pellet Plant area (PP1 & PP2) is 54.66 ha (135.06 Acres). - Plantation programme has been undertaken through green belt development plan and around 13.64 ha area has been covered with greenbelt inside the pellet plant premises by planting native species. In addition to this, around 2.5 ha area developed as roadside plantation in between Plant Main gate to Pellet Plant entrance gate. As on date approx. 30% greenbelt has been achieved with a total no. of 55250 native saplings. - For the financial year 2024-25, total 1050 nos. of saplings have been planted covering 0.42 ha of the area inside pellet plant complex. - we have identified additional patch of land adjacent to the Pellet plant complex (land owned by AMNSI) in the SW direction to achieve the 33% target.
xii)	All the recommendations made in Charter on Corporate Responsibility for Environmental Protection (CREP) for Steel Plant shall be implemented	Noted and will be adhered to.
xiii)	No coke oven plant shall be installed without taking prior environmental clearance from the Ministry	Not applicable, as the existing facility is a Pellet Plant complex only.
xiv)	Prior environmental clearance shall be taken for Beneficiation Plant and all the stipulated environmental conditions shall be implemented satisfactorily.	Not applicable, as the existing facility is a Pellet Plant complex only.
xv)	Prior permission from the State Forest Department regarding impact of proposed project on Mangrove Swamp and recommendations suggested shall be implemented	AM/NS India has deposited an amount of Rs. 357.781 Lakhs to State Forest Department for the purpose of implementation of various activities within the project impact area in Mangrove Forest Division (WL), Rajnagar. Site specific wildlife conservation plan and its implementation status has received from the Divisional Forest Officer, Mangrove Forest Division (WL), Rajnagar, vide Letter No. 2951/1F-Acct-45/2024 dated 18th May' 2024.

		The utilization Certificate for FY 2024-25 is awaited and shall be submitted once obtained from DFO office.
xvi)	No construction activity on the Forest Land shall be initiated without taking prior forest clearance from the concerned Central/State Govt.	No construction activity has been undertaken on the forest land.
xvii)	Rehabilitation and Resettlement Plan shall be implemented as per the revised R&R Policy and in collaboration with the State Government in a time bound manner and report submitted to the Ministry, its Regional Office at Bhubaneswar and OPCB.	Noted and will adhere to the condition.

GENERAL CONDITIONS(S):

SL. NO.	CONDITIONS	COMPLIANCE STATUS
i)	The Project Authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government	Noted and will be adhered to the condition.
ii)	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests	Noted and will be adhered to the condition.
iii)	The gaseous emissions from various process units shall conform to the load/mass-based standards notified by this Ministry on 13th May,1993 and standards specified from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. On-line continuous monitoring system shall be installed in stacks to monitor SPM and interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	On-line stack monitoring facilities (CEMS) have been installed in the stack connected to indurating furnace to monitor the concentration of Particulate Matter. In addition to this, manual monitoring is also carried out by engaging NABL Accredited agency and the monitoring reports are being submitted to both SPCB & SPCB, as per the guideline.
iv)	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with OPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the OPCB/ CPCB once in six months.	- Ambient Air Quality is being monitored at 04 locations as per the CPCB guidelines and in consultation with the Regional Office, SPCB. - Additionally, 5 nos. of On-line Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have also been installed and data is being transmitted through Real Time Data Acquisition System (RTDAS) to both SPCB and CPCB server. Summary of Ambient Air Quality Monitoring Reports for the period of Oct'24 to Mar'25 is attached

		
v)	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May ,1993 and 31st December,1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	The surplus process water after being treated in WTP and thickener, is being reused in Captive Power Plant (CPP), as well as for Greenbelt development, firefighting and dust suppression purposes.
vi)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules,1989 viz.,75 dBA (Day time) and 70 dBA (Night time)	Ambient noise levels & workplace noise monitoring are being monitored periodically by engaging NABL Accredited laboratory. However, as a proactive measure, ear plug/ ear muffs are being provided to those workers working in the main water pump house, filtration building, Indurations Building Feed end area, IDB Burner Floor (North side), IDB Pellet discharge end, Balling Disc area, IDB Ground Floor, Discharge end Scrubber, Soft water & Cold-water pump House and at ESP Area. Ambient Noise monitoring report of 6 months are ranging between 65.73 to 71.07 dB in day hours. and 55.5 to 62.2dB. in night hours.
vii)	The company shall develop surface water harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	- Existing Pond has already been renovated extensively for holding of excess surface runoff during rainy season. - Surface run off treatment plant of 160 m3/hr is installed for treatment and reuse of surface run off water. - Feasibility study was carried out by engaging NABL accredited agency for exploring the possibility of water harvesting in the area. - As water table is found at very high level in the locality, it is not suitable for recharging ground water table.
viii)	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	It Is being done every year in concurrence with the requirements of the Factories Act,1948 and Odisha Factories Rules,1950.
ix)	The Project Proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP Report. Further the Company must undertake socio- economic development activities in the surrounding villages like community development programmes,	CSR & CER activities are undertaken jointly on a regular basis.

	educational programmes, drinking water supply and health care etc.	
x)	As proposed, the project authorities shall earmark Rs.450 crores and Rs.10 crores for capital cost and recurring cost per annum respectively for environmental protection measures and use judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	There is a separate fund allotted for Environment Management System, which is utilised only for Environment protection & improvement measures.
xi)	The Regional Office of this Ministry at Bhubaneswar/CPCB/OPCB will monitor the stipulated conditions. A six -monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Half yearly compliance report along with the monitoring results have been submitted on regular basis, by 1st December (for the period from April-September) and by 1st June (for the period from October- March) to the Regional office, MoEF&CC, Bhubaneswar and SPCB, Odisha.
xii)	The Project Proponent shall inform the public that the project has been accorded Environmental Clearance by the Ministry and copies of the clearance letter are available with the OPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office.	Complied. The Environment Clearance (EC) copy granted for the project was published in the local newspaper i.e., in English News Daily, "The New Indian Express" and Oriya News Daily, "Oriya Bhaskar" on 21st & 22nd June 2008 respectively.
xiii)	Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing of the land development work.	Complied.



Authorized Signature

NAME OF THE PROJECT : ENVIRONMENTAL CLEARANCE FOR COMPLETION OF BALANCE WORK OF 6 MTPA PELLET PLANT (UNIT-2) OF 12 MTPA PELLET PLANT BY M/S. ARCELORMITTAL NIPPON STEEL INDIA LIMITED LOCATED AT UDAYABATA, POST- PARADEEP, TEHSIL-KUJANG, DISTRICT- JAGATSINGHPUR, ODISHA.

CLEARANCE LETTER/S NO. & DATE : J-11011/129/2007-IA II(I), Proposal No. IA/OR/IND/204957/2021, dated- 17/07/2021.

PERIOD : **1st October'2024 to 31st March'2025**

A. Specific Condition:

Sl. No.	Conditions	Compliance Status
i.	No construction activity/infringement will take place in flood plain of Mahanadi River located at a distance of 0.20 kms from the boundary of the plant site. Project proponent shall maintain the plant level at least 4.0 meters above MSL and strengthen the existing bund/embankment along the Mahanadi River.	- There is no construction activity/ infringement took place in flood plain of Mahanadi River located at a distance of 0.20 km from the boundary of the plant site. - Plant level is maintained at more than 4.0 meters above MSL and strengthening of the existing bund/embankment along the Mahanadi River is being taken care of.
ii.	Particulate matter emission from all the stacks shall be less than 30mg/Nm ³ by installing bag filters with PTFE membrane. PM emission limit of 30 mg/Nm ³ for the operational 6.0 MTPA pellet plant module, shall be achieved by upgrading the existing air pollution control devices by December 2022.	- Necessary modification was carried out in 6 nos. of ESP connected with induration furnace of 12 MTPA Pellet Plant (both Pellet Plant-1 & 2), to reduce the Particulate matter emission from all the stacks. - Total 6 nos. of wet scrubbers are attached to feed end, discharge end and Hearth Layer Screen Building (HLSB). In addition to this, bag filters are attached to additive grinding units to maintain the emission limit less than 30 mg/Nm³.

iii.	Water requirement for the project after expansion (852 m3/hr) shall be met from water recovered from iron ore slurry and Taladanda Canal. Ground water abstraction shall not be permitted.	Water requirement for both the pellet plants is catered from the water recovered from iron ore slurry (744m3/Hr) and Taladanda Canal (3550m3/hr).
iv.	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 to the concerned Regional Office of MoEF&CC.	- AM/NS India has deposited an amount of Rs. 357.781 Lakhs in State Forest Department for the purpose of implementation of various activities within the project impact area in Mangrove Forest Division (WL), Rajnagar. - Site specific wildlife conservation plan and its implementation status has received from the Divisional Forest Officer, Mangrove Forest Division (WL), Rajnagar, vide Letter No. 2951/1F-Acct-45/2024 dated 18th May' 2024. - The utilization Certificate for FY 2024-25 is awaited and shall be submitted once obtained from DFO office.
v.	Fugitive emissions at workplace shall be monitored monthly and report furnished to the concerned Regional Office of MoEF&CC.	Fugitive emissions at workplace is monitored monthly by engaging NABL accredited laboratory and the report is submitted to OSPCB on monthly basis and Regional Office of MoEF & CC on half yearly basis. Data
vi.	40% total land shall be covered under green belt development. This includes green belt development of 20-meter-wide towards Udayabata Village which is 600 m from the plant boundary. In addition to the 40% greenbelt mentioned above, green cover shall be developed in 16 acres of buffer area created between plant boundary and Mahanadi River as committed by the project proponent.	- Total Pellet Plant area (PP1 & PP2) is 54.66 ha (135.06 Acres). - Plantation programme has been undertaken through green belt development plan and around 13.64 ha area has been covered with greenbelt inside the pellet plant premises by planting native species. In addition to this, around 2.5 ha area developed as roadside plantation in between Plant Main gate to Pellet Plant entrance gate. As on date approx. 30% greenbelt has been achieved with a total no. of 55250 native saplings. - For the financial year 2024-25, total 1050 nos. of saplings have been planted covering 0.42 ha of the area inside pellet plant complex. - To achieve the remaining 10% of greenbelt, we have identified additional patch of land adjacent to the Pellet plant complex (land owned by AMNSI) in the SW direction, and another patch of land (state govt. land) adjacent to the proposed steel plant complex at West direction. The plantation activities will be carried out in a phased manner to achieve the 40% target by 2027.
vii.	Project proponent shall switch over to Natural Gas fuel from LSHS/LDO by December 2022.	Natural gas is being used as fuel source instead of LSHS/LDO in both the Pellet Plants.
viii.	Monitoring of the compliance of Environmental Clearance conditions shall be carried out by a third party and report shall be submitted to the Regional Office of the MoEF&CC.	QCI- NABET Accredited consultant has been engaged for monitoring of the EC Compliance. The report will be submitted to Regional Office, MoEF&CC accordingly.

B. General Conditions:

Sl. No.	Conditions	Compliance Status
	I. Statutory compliance:	
i.	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/ consent to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts / Rules / Subordinate legislations etc., as may be applicable to the project.	Noted and is being strictly adhered to.
II. Air quality monitoring and preservation		
i.	The project proponent shall install 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.	- Continuous Emission Monitoring System (CEMS) has been installed at the process stack, to monitor the emission from process stack, and Five (05) no. of Continuous Ambient Air Quality Monitoring System (CAAQMS) for continuous monitoring of Ambient air quality in the Pellet Plant.   - All the CEMS & CAAQMSs are connected with Real Time Data Acquisition System (RTDAS) and continuous data transmission to both SPCB & CPCB server is being ensured. - These systems are calibrated from time to time as per the specification of OEM through NABL Accredited Laboratory.
ii.	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.	Appropriate Air Pollution Control (APC) system is provided for all the dust generating points including fugitive dust emission from all vulnerable sources, to comply with the prescribed stack emission and fugitive emission

		standards. Below Air Pollution Control System (APCS) is provided in the Pellet Plant. 1. Electrostatic precipitator (ESP) has been installed in induration furnace and connected to a concrete chimney. 2. Wet scrubber has been installed in both Feed end & discharge end of the induration furnace, and Hearth layer Separation unit. 3. Bag filters are attached to Ball Mill & Roll Mill of Additive Grinding Mill, Bentonite Mixing Bin, Limestone storage Bin, Limestone Mixing Bin and Mixer Bin to control fugitive emissions. 3. Dry fog system, fog canon and water sprinklers have been installed at transfer chutes of conveyors as well as at stacker & reclaimer area to control the fugitive dust emission.  
iii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	• Super sucker vacuum cleaners have been deployed in shop floor areas. In addition to this Vacuum based road sweeping machines are deployed for cleaning of internal and material roads inside the pellet plant complex. 

		
iv.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Leakage detection and mechanized bag cleaning facilities has been provided in bag filters for better maintenance of bags.
v.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	Materials collected from the pollution control devices like ESP, Bag filters and scrubbers are reused and recycled back in the process through thickener.
vi.	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.	- Major raw material, iron ore is being received in the form of slurry from the Beneficiation plant, Dabuna through underground slurry pipeline, which eliminates road transportation and in turn reduces spillage & dust generation. - Other raw materials are transported by road from port, with tarpaulin cover to prevent spillage and dust generation.
vii.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Adequate ventilation system is provided for all tunnels, motor houses, Oil Cellars.
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.	Ground water quality monitoring is done twice in a year through NABL laboratory. The ground water monitoring report of last 6months shows all parameter are within the limit.
ii.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	A Sewage Treatment Plant of 15 KLD capacity is provided for treatment of domestic wastewater generated from Canteen & washrooms and the treated water is utilised for gardening activities.

		 The treated water quality is being monitored on monthly basis by engaging NABL accredited laboratory and monitoring report is timely submitted to SPCB, Odisha.
iii.	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.	Not applicable as Rolling mill is not established in the existing facility.
iv.	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 runoff.	Garland drains followed by settling pits are provided around all stockpiles to arrest the run-off during heavy rains and to check the water pollution due to surface runoff. 
IV. Noise monitoring and prevention		
i.	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.	Noise level monitoring is being done for various locations in the plant on monthly basis by engaging NABL accredited laboratory and report is being submitted to SPCB, Odisha on monthly basis and Regional Office, MOEF&CC on six-monthly basis. Noise survey report of 6 months shows data ranging within 64.63 to 71.28 dB in day hours.
V. Energy Conservation measures		
i.	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.	- As energy conservation measure, LED lights have been installed at various locations of inside the plant premises. - Apart from this, 158 units of solar streetlights have been installed in nearby local villages under CSR scheme.

		
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VI. Waste management

i.	Used refractories shall be recycled as far as possible.	Used refractories are provided to authorised manufacturers for recycling.
ii.	Kitchen waste shall be composted or converted to biogas for further use.	Organic Waste Converter (OWC) has been installed at plant premises for composting of kitchen & garden waste, which is further used as manure/good soil conditioner in gardening activities. 

VII. Green Belt

i.	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.	• GHG emissions inventory for the Pellet Plant is prepared. And For reduction of GHG emissions, use of furnace oil is replaced with Natural Gas, as major fuel. • A Carbon sequestration study has been carried out by engaging External Agency, Ind Tech House Consultant (ITHC) for the existing green belt cover inside Plant premises during the year 2023.
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VIII. Emergency preparedness

i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan has been prepared, approved and implemented at site.
ii.	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.	• Heat stress analysis for the workmen, those are working in high temperature work zone has been carried out internally and Regular distribution of sufficient quantity of hydration powder with provision of cool drinking water

		facility is provided at site. Well maintained rest shed has been provided along with adequate FR jackets, helmet and heat resistant safety shoes has been provided to workmen working in heat zones.
iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	• Before engagement in any operational related activities, it is mandatory for all the new workmen to complete the pre-employment medical check-up. • There is provision for periodical medical checkup once in a year for the workers.
IX. Environment Management		
i.	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.	Noted and will be complied with.
ii.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and /or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	• A well framed Environmental policy is established in the plant, which is duly approved by the Board of Directors of the company. 
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 to the head of the organization.	• A separate Environment Cell both at the project and company head office has been established with well qualified and senior environment professionals. • The Senior environment professional is reporting to the Head of the Organization.
X. Miscellaneous		
i.	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.	• The Environmental Clearance (EC) granted for the project was published in the local newspaper, "Dharitri" and "New Indian express" (Odisha edition) on 18.08.2021.

		
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 has been submitted to the head of local bodies and panchayat office.
iii.	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.	Half yearly EC compliance report along with the monitoring data have been uploaded in the company website on half yearly basis.
iv.	The project proponent shall monitor the criteria pollutants level namely, PM10, NOx, SO2, (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.	- The criteria pollutants level namely, PM10, NOx, SO2, (both in ambient air as well as stack) or critical sectoral parameters, indicated for the projects are monitored manually through NABL accredited laboratory and through the online monitoring systems (CEMS & CAAQMS). - The same is displayed at the Main gate for public information.  - The monitored data is also uploaded in the company website along with the half yearly compliance report.
v.	The project proponent shall submit six-monthly reports on the status of the of compliance the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Six monthly compliance report is submitted on or before 1st December and 1st June of every year for the period of April- September and October- March respectively to MoEF&CC through Parivesh Portal.

vi.	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.	- Environmental statement in Form-V has been submitted to SPCB on or before 30th September of every year for preceding financial year. - The same is also uploaded on the Company website.
vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Complied.
viii.	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.	Noted and complied.
ix.	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 and it will be adhered to.
x.	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 it will be adhered to.
xi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted and it will be adhered to.
xii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted and it will be adhered to.
xiii.	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 and it will be adhered to.
xiv.	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 it will be adhered to.



Authorized Signature

Half yearly CSR Highlights (October 2024- March 2025)

**ArcelorMittal Nippon Steel india,
Paradeep**

Thematic Area wise Highlights

Health

- 4845 patients were treated through Mobile Medical Unit in 100 camps as a part of doorstep delivery of basic health care services.
- World Heart Day observed at Bhutmundai village on 1st October where 35 villagers participated. Dr. Niranja Diweldi as a resource person emphasized on the importance of heart health and encouraged people to take preventive measures against heart diseases. He advised to adopt health lifestyle including small changes to individual diet, exercise routine, and stress management to improve heart health.

Education

- The Smart class at Nuagarh middle school was inaugurated in the presence of Jharana Tripathy, Headmaster Nuagarh Middle School, Prasant Kumar Mohapatra, Headmaster Nuagarh High School, Dr. Vikas Yadvendu, Head CSR, AMNS India, Bishnupriya Sethi, DSWO of Jagatsinghpur, along with Smt. Rajashree Sahoo, CDPO of Kujang Block
- On October 8, 2024, the Model Anganwadi project hosted a launch event at Nuagarh Panchayat Bhawan. Chief Guest Smt. Bishnupriya Sethi, DSWO of Jagatsinghpur, along with Special Guest Smt. Rajashree Sahoo, CDPO of Kujang Block, Dr. Vikash Yaduvendu, CSR Head at AMNS, Smt. Kusum Gaur – National Partnership Officer from HPPI, Mr. Debendra Rout, Sarpanch of Nuagarh Panchayat, graced the occasion. The program commenced with a lamp-lighting ceremony led by the chief guest and other dignitaries.
- Training of AWW, AEH and ASHA on Health and Nutrition- On dated 29th Jan. 2025, Project organize a Training of Anganwadi Worker, Anganwadi Helper and ASHA. The Training was Conduct at CDPO Office Campus. 75 Participants from 25 Anganwadi are attend in the meeting. The training was organized under the supervision of CDPO Smt. Rajeshree Sahoo, CDPO Kujang, .Mr. Basant Dash retired teacher attend as resource person.
- As of February 2025, significant progress has been made, including 25 meetings of Women's Health Clubs and 20 meetings of Adolescent Girls Groups, engaging a total of 183 participants. 25 meetings with Anganwadi workers were conducted to strengthen their work and activities, resulting in enhanced community awareness of education and critical health issues.
- ArcelorMittal Nippon Steel India (AM/NS India) inaugurated the Smart Model Anganwadi Centres on 25th of march 2025 in Musadia and Singitali villages as a part of its Corporate Social Responsibility (CSR) project 'Padhega Bharat'. AM/NS India, in collaboration with Humana People to People India (HPPI), is working to transform 25 existing Anganwadi centres in Paradeep region into Smart Anganwadis.

Livelihood and Skill Development

- 125 numbers of manual sprayer machines were supported to 125 farmers for watering and pesticide applications. The distribution was conducted in the presence of Nuagarh Sarpanch, Mr. Debendra Nayak.
- 8 SHGs of 35 women adopted mushroom production initiative and they have produced a total of 532 kg of mushrooms across all units. With an average production of 15 kg per woman, and an average selling price of ₹250 per kg.
- 125 numbers of manual sprayer machines were supported to 125 farmers for watering and pesticide applications. The distribution was conducted in the presence of Nuagarh Sarpanch, Mr. Debendra Nayak.
- Kalinga Bali Yatra is the largest open-air festival and it is organized every year in the sea coast of Paradeep city. The festival started this year on 15th November'24 and continued for eight days i.e 22nd November'24. Our SHG women members also set up their stall in the fair and showcase and sold their products like millet product ready to eat food, handicraft items, jute bags, soft toys, paper products, phenyls, dry food etc .
- A group of 47 farmers, accompanied by two project staff members, one Artificial Insemination Technician (AIT), and two Community Resource Persons (CRPs), visited the Extension Department of Odisha University of Agriculture and Technology (OUAT), Bhubaneswar.
- The SAFAL project team organized a vibrant celebration of National Farmer's Day, 2024, at Paradeep to honor the contributions of farmers and promote sustainable livestock farming practices. The event brought together farmers, local leaders, and stakeholders to emphasize clean milking practices and distribute essential farming materials.
- This Quarter, total 292 kg of mushroom have been produced which made the profit of Rs. 80,100/- from 37 participants from Nuagarh, Baldia, Chakradharpur and Bhutmundai villages.
- As a part of animal breed development programme, 101 Artificial Insemination has undertaken this month with the birth of 29 high yield calves.
- 10 new biogas units have been successfully installed with the contribution for beneficiaries. This intervention promotes clean energy usage, reduces dependence on firewood and chemical fertilizers, and supports sustainable waste management at the household level.
- **Promotion of Sports and Culture**
- **Project- Udaan**
- AMNS INDIA organized inter village cricket league by taking 10 teams from three grampanchayats. The four-day long day and night tournament was organized by CSR department under it's flagship project named "UDDAN"

- On January 19, 2025, the mini stadium developed by ArcelorMittal Nippon Steel India as part of its CSR initiative at the Paradeepgarh village playground was inaugurated by Sri Sampad Chandra Swain, Hon'ble Minister of State (Ind. Charge) , Industries, Skill Development and Technical Education, Govt. of Odisha.

Nirman-

- With an aim to empower women of its operational areas and to make them self-reliant, ArcelorMittal Nippon Steel India, as part of its CSR initiative under "Nirman," has set up a Lok Vikas Kendra (LVK) at Nuagarh village, which was inaugurated today by Sri Sampad Chandra Swain, Hon'ble Minister of State (Ind. Charge), Industries, Skill Development and Technical Education, Govt. of Odisha, and local MLA in the presence of Sri Debendra Rout, Sarpanch, Nuagarh on February 02, 2025.

Other Initiatives

- AMNS INDIA supported the district administration with relief materials in managing the cyclone affected villagers as a part of precautionary measures as a part of managing the cyclone Dana.
- International Womens Day observed on 8th March 2025 at Nuagarh, Paradeepgarh and Bhutmundai Grampanchayts with more than 1900 women participants with arranging various competitions like debate, song, music chair and other recreational activities.

Thematic area updates

Health

- Health is a basic priority under the CSR arm of AMNS India. To provide basic health care service at the doorstep of the villagers, AMNS is running mobile Medical Unit in it's periphery villages.
- The unit is equipped with one Doctor, One Pharmacist, One driver cum attendant and is supervised by Social Protection Officer.
- In this quarter, the MHU has provided 4845 no. Of treatment in total Camp Organized 100.
- 13 numbers of Health Awareness Sessions at the MHU sites of seasonal and chronic diseases, on Arthritis, Dysentery, Cold & Cough in which 429 direct beneficiaries participated and got awareness about the precautionary measures.
- World Heart Day observed at Bhutmundai village on 1st October where 35 villagers participated. Dr. Niranja Diweldi as a resource person emphasized on the importance of heart health and encouraged people to take preventive measures against heart diseases. He advised to adopt healthy lifestyle including small changes to individual diet, exercise routine, and stress management to improve heart health.



Eye Check Up Camp-

Eye Screening and Eyeglasses out reach programme was completed at Paradeep periphery areas in partnership with vision spring foundation. The programme initiated to create awareness on importance of eye health and eyeglasses and as a part of the programme eye-screenings was also conducted and eyeglasses were also provided to those who were found with defective refractory error. 3121 school children from 19 schools and 250 truck drivers were got benefited from the programme.



Education

AI based Smart Class Inauguration-

- AI based smart classrooms are transforming education by integrating advanced technologies to enhance learning experiences. It provides students personalized and customized educational contents. AI powered tools facilitate better collaboration among students through digital platforms. In this stride, AM/NS established 08 smart classes in 08 middle schools where 1600 students will be benefited.
- The Smart class at Nuagarh middle school was inaugurated in the presence of Jharana Tripathy, Headmaster Nuagarh Middle School, Prasant Kumar Mohapatra, Headmaster Nuagarh High School, Dr. Vikas Yadvendu, Head CSR, AMNS India, Bishnupriya Sethi, DSWO of Jagatsinghpur, along with Smt. Rajashree Sahoo, CDPO of Kujang Block



Anganwadi Development-

- Arcelor Mittal Nippon Steel India, in partnership with Humana People to People India is implementing the "Strengthening of 25 Anganwadi Centres for a Healthy and Educated Community" project in the Paradip block of Jagdishpur, Odisha. The project aims to

enhance the health status of women, adolescents, and children by improving access to quality reproductive and child health services provided by trained frontline health workers and Anganwadi centres across 25 villages.

- **Project Launch Event** – On October 8, 2024, the project hosted a launch event at Nuagarh Panchayat Bhawan. Chief Guest Smt. Bishnupriya Sethi, DSWO of Jagatsinghpur, along with Special Guest Smt. Rajashree Sahoo, CDPO of Kujang Block, Dr. Vikash Yaduvendu, CSR Head at AMNS, Smt. Kusum Gaur – National Partnership Officer from HPPI, Mr. Debendra Rout, Sarpanch of Nuagarh Panchayat, graced the occasion. The program commenced with a lamp-lighting ceremony led by the chief guest and other dignitaries.
- All 25 Anganwadi workers and helpers participated in the event. Smt. Kusum Gaur from HPPI outlined the project's aims and objectives, highlighting the commitment to creating a nurturing environment for children at Anganwadi centres. DSWO and CDPO emphasized their commitment to improving child health and education within the community. The Sarpanch extended his best wishes to the Anganwadi workers and assured his support for the mission.
- The project successfully gained support from the Anganwadi centres and received an official government approval letter.



Three days Capacity building of Anganwadi staff, ASHA on health and nutrition:

On the date 20 to 22nd, November-2024 capacity building training of Anganwadi worker, Helper and ASHA worker was organized on the topic of Health and nutrition. Mrs Chhabibala Nayak from ICDS participated as a guest. Resource person Srutipragnya Mohapatra provided training about health and nutrition and perfect health by using balanced nutritious food. Total 25 Anganwadi worker, 25 Anganwadi Helper and 25 Asha worker attended the 3-day session from 25 Anganwadi.

Training of AWW, AEH and ASHA on Health and Nutrition- On dated 29th Jan. 2025, a Training of Anganwadi Worker, Anganwadi Helper and ASHA was organized in the office campus of CDPO at Kujang. 75 Participants from 25 Anganwadi centres attended the meeting. The training was organized under the supervision of CDPO Smt. Rajeshree Sahoo, CDPO Kujang, and Mr. Basant Dash eminent retired teacher provided the training as resource person. The training emphasized on the topic of Health & Nutrition. Mr. Daipayan Panigrehi, Nation Program Manager from Partner organization, Humana participated in the event and described the importance of nutrition in human body. The resource person conducted training on Health and Nutrition, Important of exercise, nutrition food, nutrition recipe, physical and mental health etc. The focus of the programme was to provide a refresher training to the Anganwadi workers for the easy understanding of the children and maternal health development.



Inauguration of Anganwadi Center-

- ❖ ArcelorMittal Nippon Steel India (AM/NS India) inaugurated the Smart Model Anganwadi Centres on 25th of march 2025 in Musadia and Singitali villages as a part of its Corporate Social Responsibility (CSR) project 'Padhega Bharat'. AM/NS India, in collaboration with Humana People to People India (HPPI), is working to transform 25 existing Anganwadi centres in Paradeep region into Smart Anganwadis.
- ❖ The Musadia Model Anganwadi Centre was inaugurated by Smt. Bishnu Priya Sethi, District Social Welfare Officer (DSWO), Jagatsinghpur in the presence of Smt. Rajashree Sahoo, Child Development Project Officer (CDPO), Kujang block, Dr. Vikas Yadvendu, Head - CSR, AM/NS India, Shri Sanjeev Bhatt, Development Director, HPPI and Shri Debendra Rout, Sarpanch, Nuagarh Panchayat. More than 300 women including Anganwadi workers, helpers and village locals were present on the occasion.



Livelihood and Skill Development

Vegetable cultivation and marketing support

- The vegetable farming project has commenced in Baldia, Chakdharpur, Nuagarh, and Paradeepgarh, involving 124 farmers. These farmers have begun cultivating their land using the provided resources, which may improve their annual income. Regular check-ins and production updates are collected from the farmers. The average output in a month from a single field of average 4 decimal of land is 6 kg cucumber, 25 kg bitter gourd, 30 kg ridge gourd, 25 kg bottle gourd. 125 numbers of manual sprayer machines were supported to 125 farmers for watering and pesticide applications. The distribution was conducted in the presence of Nuagarh Sarpanch, Mr. Debendra Nayak.



Promotion and demonstration of paddy

Paddy harvesting is being done in the 200 farmers. Production data has been collected for 200 farmers. As per previous year data, the average yield has been increased 0.95 quintal per acre. Also, the farmers are trained in the scientific and efficient method of paddy cultivation like SRE method, IPM and INM practice, semi organic cultivation practice and post-harvest technology.

Sl. No.	Particular	Quantity				
1	Total cover of land	78.51 acre				
2	Variety wise land Cover	Gayatri /CR 1810	4304 decimals			
		Kalachampa	1710 decimals			
		Puja	937 decimals			
		Varsha /MTU 1061	900 decimals			
		Variety	Total Production (in Quintal)	Average production per Ac (quintal)	Average production previous year (quintal)	Increase in yield (quintal per acre)
3	Total production		1464	18.94	17.99	0.95
4	Variety wise land Cover	Gayatri /CR 1810	790	18.55	18.01	0.54
		Kalachampa	345	20	19.3	0.70
		Puja	189	20.33	18.65	1.68
		Varsha /MTU 1061	139	16.31	16	0.31

Higher paddy production can boost the income of farmers and contribute to the overall economy, especially in regions where paddy is a staple crop in this region. Increased production can help ensure a stable supply of rice, which is a primary food source for many populations around the Paradeep region.



Vegetable demo plots - on trellis

In response to the challenge of limited land availability in the project area, vertical farming techniques are being introduced to maximize productivity in small landholdings. One of the key interventions under this approach is the promotion of high-value creeper vegetable cultivation on trellises. This technique allows efficient use of vertical space, leading to higher yields, improved crop quality, and better plant health—especially on plots as small as 12.5 decimals per farmer.

Under this initiative, 50 farmers across 5 villages have been selected to establish vegetable demonstration plots, covering a total of 50 acres of land. These plots are supported with essential inputs such as bamboo, fish nets, GI wire, improved seeds (bitter melon, ridge melon, and cucumber), and fertilizers. In addition, farmers receive ongoing capacity-building training and technical guidance to ensure proper implementation and adoption of the trellis model. This intervention is designed to enhance household income and food security through sustainable vegetable cultivation.

This encouraging outcome demonstrates the economic viability of vertical farming in smallholder settings and highlights the potential for wider adoption in resource-constrained rural areas.

Sl. No.	Village Name	No. of Farmers benefitted	Individual Total Production till now (kg)	Individual income (Rs.)
1	Balidia	13	517	1789.61
2	Barei	12	402	1507.50
3	Bhutumund ai	4	142	1597.50
4	Chakradhar pur	4	165	1856.25
5	Pipal	8	301	1693.12
6	Singitali	9	339	1695



Promotion of organic techniques -vermiculture/ vermiwash/jivamrut

To encourage sustainable agricultural practices and reduce dependency on chemical fertilizers, the SAFAL project has been actively promoting vermicomposting as a viable and eco-friendly alternative. Traditionally, farmers in the region used basic methods to decompose cow dung for fertilizer. However, to enhance the quality and effectiveness of organic manure, the project introduced improved techniques through the use of HDPE vermibeds and vermiculture.

Under this intervention, 150 farmers have been supported with vermicompost units, which include high-quality vermibeds, earthworms, and technical training on compost preparation, management, and application. This approach has not only led to improved soil fertility and higher crop yields, but also significantly reduced input costs by minimizing chemical fertilizer usage.

Many farmers are now incorporating vermicompost into their fields regularly, resulting in healthier, more resilient crops. Additionally, surplus vermicompost is being packaged and sold, creating an extra income stream and reinforcing the benefits of organic farming for both economic and environmental sustainability.

The support of new vermi beds marks another step forward in expanding organic farming practices across the project area, empowering farmers to adopt environmentally responsible techniques while improving their agricultural productivity and income potential.

Sl. No.	Village Name	No. of Farmers benefitted till now	Average Individual Total Production till now (kg)
1	Nuagarh	8	87
2	Balidia	45	87
3	Singitali	16	87
4	Handia	1	87
6	Bhimanasi	8	87
8	Chakradharpur	8	87
9	Bhutmundai	17	87
10	Barei	29	87
11	Pipal	18	87

Farm field school on dissemination knowledge sharing-

19 Farmers' Field School meetings were conducted to build the capacity of local farmers in sustainable and organic farming techniques. The sessions focused on disseminating practical knowledge and skills, with a live demonstration of preparation of Jivamrut, a traditional bio-fertilizer that promotes soil health and crop yield. Farmers gained hands-on experience in preparing and applying Jivamrut, along with insights into the benefits of organic inputs over chemical fertilizers. This field school empowered farmers with eco-friendly practices, reinforcing sustainable agriculture and strengthening their technical expertise for improved productivity and soil conservation.



Off farm livelihood

Mushroom Cultivation

Mushroom cultivation has emerged as a promising off-farm livelihood opportunity in the project villages, particularly given the favourable local climate for paddy straw mushrooms. With strong participation from active SHG women eager to explore micro-enterprise options, the SAFAL project initiated targeted support to promote mushroom farming as a sustainable and profitable activity.

Under this intervention, 35 women farmers have been engaged—33 members organized in 9 groups and 2 individual farmers—to cultivate paddy straw and oyster mushrooms. The project has facilitated training programs, exposure visits, and financial assistance, enabling these women to confidently start and sustain their mushroom units.

To date, a total of 970 kg of mushrooms have been produced, generating an additional income of ₹2,91,000. The low space requirement, minimal investment, and quick returns make mushroom farming an ideal livelihood solution, particularly for women. This initiative has significantly contributed to improving financial independence, food security, and entrepreneurial capacity among women in the region.



The continued success of this initiative is inspiring more farmers to explore mushroom cultivation, thus strengthening the foundation for sustainable rural livelihoods and women-led enterprises in the project area.

Backyard Poultry support

Backyard poultry farming has proven to be a viable and sustainable alternative source of income, especially for women, landless farmers, and marginalized groups with limited access to cultivable land. As part of its livelihood diversification strategy, the SAFAL project has introduced this intervention to promote small-scale poultry farming for income generation and food security. Under this initiative, 20 poultry houses were constructed with financial support from the project, benefiting 20 selected farmers. Importantly, farmers contributed their own labor during construction, encouraging ownership and accountability. Each farmer was provided with 25 poultry chicks, along with essential inputs such as starter and grower feed, feeders, and drinkers as one-time support.

In the first cycle, the intervention achieved an outstanding survival rate of 95.8%, with 479 out of 500 chicks surviving. The birds reached an average weight of 1,175g within 48 days, and at a market price of ₹300/kg, the projected earning per household is around ₹18,750, generating a total output value of ₹3,59,250 in a single cycle.

This intervention has not only improved household income but also contributed to nutritional security, women's empowerment, and economic resilience in the target villages.

The increasing body weight of birds and income from egg sales signal promising scalability and sustainability for backyard poultry as a livelihood model. SAFAL continues to build capacity and provide technical guidance to ensure long-term success of this intervention.



Livestock Development Program

For the sustainable development and potential earning of livestock farmers AM/NS in partnership with BAIF introduced animal breed development programme in periphery villages at Paradeep. It has given potential progress by giving birth of improved high yielding calves.

Overall, AI has revolutionized livestock breeding by making it possible to achieve genetic improvements and enhance productivity efficiently at the door step of the villagers. It not only helps the farmers to reduce the risk of low breed but also confirms and ensures the breed of cattle suitable for the environment.

Total AI done till now:

No of AI	SS	Conventional
454	243	211

No. of calving done till now

No of Calving done	Female	Male
99	62	37

Organizing Stall at Baliyatra Festival-

Kalinga Bali Yatra is the largest open-air festival and it is organized every year in the sea coast of Paradeep city. The festival started this year on 15th November'24 and continued for eight days i.e 22nd November'24. Several stalls selling toys, gift items, handloom garments, household items, etc. were set up during the festival. Our SHG women members also set up their stall in the fair and showcase and sold their products like millet product ready to eat food, handicraft items, jute bags, soft toys, paper products, phenyls, dry food etc . CSR team supported these women in arrangement for putting up the stall, arranging uniform dress code, logistics and transport for eight days in the venue. The stall was inaugurated by Mr. J. Sonal, collector and District Magistrate of Jagatsinghpur. This motivated the women by generating income for them by selling the product to the visitors.



Farmer exposure to on-going project area

An exposure visit was recently organized under the SAFAL project, a flagship initiative funded by AM/NS India. The visit aimed to familiarize farmers with modern agricultural practices and integrated farming systems, equipping them with knowledge to enhance productivity and sustainability.

A group of 47 farmers, accompanied by two project staff members, one Artificial Insemination Technician (AIT), and two Community Resource Persons (CRPs), visited the Extension Department of Odisha University of Agriculture and Technology (OUAT), Bhubaneswar. The program provided a platform for participants to observe and learn about state-of-the-art farming technologies, innovative cropping systems, soil health management techniques, and integrated farming approaches combining agriculture, livestock, and allied activities.



Experts at OUAT showcased demonstrations of advanced agricultural tools and techniques, along with interactive sessions on the significance of diversification in farming. The farmers expressed enthusiasm and shared their appreciation for the practical knowledge they gained. Many plan to adopt integrated systems, such as combining horticulture and livestock management, to maximize their income and build climate resilience.

The exposure visit aligns with the SAFAL project's broader mission of empowering farmers in Jagatsinghpur district through knowledge dissemination and sustainable practices. By promoting eco-friendly and efficient farming methods, the project continues to contribute to rural livelihood development and food security.

Such initiatives underline the commitment of AMNS India and BISLD Odisha to nurturing a self-reliant and prosperous farming community.

Celebration of National Farmer's Day-

Paradeep, December 23, 2024 – The SAFAL project team organized a vibrant celebration of National Farmer's Day, 2024, at Paradeep to honor the contributions of farmers and promote sustainable livestock farming practices. The event brought together farmers, local leaders, and stakeholders to emphasize clean milking practices and distribute essential farming materials.

The program was graced by the presence of Dr. Santosh, a veterinary doctor from BAIF. The event was inaugurated by Mrs. Sasmita Behera, the Sarpanch of Paradeepgarh, who appreciated the SAFAL project's efforts in improving rural livelihoods and fostering awareness among livestock farmers.

The event's primary objective was to educate farmers on clean milking practices, a vital aspect of ensuring high-quality dairy production and animal health. Dr. Santosh led an informative session

highlighting the importance of hygiene in dairy farming, providing practical demonstrations, and answering farmers' queries.

In addition to knowledge sharing, 100 farmers were provided cow mats to enhance cattle comfort and hygiene, reflecting the project's commitment to improving livestock productivity and welfare.

Farmers expressed their gratitude for the initiative, emphasizing how such programs support their day-to-day activities and help them adopt better farming practices. The SAFAL team reaffirmed its dedication to empowering rural communities and strengthening sustainable agricultural practices.

The celebration of National Farmer's Day served as a meaningful platform for knowledge exchange, community building, and fostering a spirit of collaboration.



Skill Development-

Inauguration of Center of Excellence at Govt. ITI, Paradeep

ArcelorMittal Nippon Steel India (AM/NS India), in collaboration with Schneider Electric, has launched a Centre of Excellence (CoE) at Govt. ITI Paradeep as part of its Corporate Social Responsibility (CSR) efforts. This initiative aims to address skill gaps in the building and manufacturing sectors by establishing specialized laboratories focused on Residential Wiring, Basic Automation, and Industrial Wiring. These facilities are designed to equip students with essential skills in building automation and industrial manufacturing, ultimately boosting their employability both within India and internationally.

The Center of Excellence (CoE) laboratory was officially inaugurated by Shri Suresha G, Executive Director of Odisha Operations at AM/NS India. The event was graced by the presence of notable dignitaries, including Dr. Vikas Yadvendu, Head of Corporate Social Responsibility (CSR) at AM/NS India, Shri R. N. Sahu, Principal of Government ITI Paradeep, Smt. Kalpana Panigrahi, Principal of Government Polytechnic Jagatsinghpur, Shri Laxmikant Biswal, Principal of SIPT ITI Patamundai, and Shri Dharmendra Behera, Employment Officer of Jagatsinghpur.



Center of Excellence (CoE), which aims to benefit 40 students annually along with 15 trainers. This initiative is designed to equip participants with skills and opportunities directly aligned with their field of study, helping them pursue relevant career paths instead of transitioning to unrelated industries. Building and industry-focused courses can be expanded to include training and certification in WorldSkills, significantly improving the quality of students' skills.



Promotion of Sports & Culture-**Inter Village Cricket Touranment-**

AMNS INDIA organized inter village cricket league by taking 10 teams from three grampanchayats. The four-day long day and night tournament was organized by CSR department under it's flagship project named "UDDAN". 150 players from 10 teams of Nuagarh, Baldia, Handia, Singitali, Musadia, Paradeepgarh, Chakradharpur, Bhutmundia, Phulbelari, Pipal villages participated in the occasion. The last final match between Paradeepgarh and Bhutmundai could not be organized due to bad weather.



AMNS supported the teams with fooding, transport, uniform and cricket kit. The event was organized in the presence of Mr. G. Suresha- ED, Odisha asset, Dr. Vikas Yadvendu- Head CSR, Mrs. Sashmita Behera, Sarpnach Paradeepgarh and other villagers and local representatives.

Inauguration of Stadium-

On January 19, 2025, the mini stadium developed by ArcelorMittal Nippon Steel India as part of its CSR initiative at the Paradeepgarh village playground was inaugurated by Sri Sampad Chandra Swain, Hon'ble Minister of State (Ind. Charge) , Industries, Skill Development and Technical Education, Govt. of Odisha, and local MLA in the presence of Sri Suresha G, Executive Director, Odisha Operations, AM/NS India; Smt. Sasmita Behera, Sarpanch, Paradeepgarh; Shri Debendra Rout, Sarpnach, Nuagarh; Sarpanch, Bhutmundai Sri. Rohit Jena and Dr. Vikas Yadvendu, Head-CSR, AM/NS India. Under this project the company has built an audience gallery, stage along with the development of the entire filed and pitch area.



With an aim to fostering sportsmanship and a vibrant sports culture among local youth and nearby communities, ArcelorMittal Nippon Steel India (AM/NS India) under its CSR initiative Udaan organised the day & night inter village cricket tournament at Paradeepgarh in Jagatsinghpur district which started on December 17, 2024. Ten teams from ten villages including Nuagarh, Baldia, Handia, Mushadia, Singitali, Paradeepgarh, Chakradharpur, Bhutmundei, Pipal and Phulbelari had participated in the tournament. Paradeepgarh won as a champion whereas Bhutmundai sttod as runners up. The teams were awarded by the guests and were congratulated for their better future. These initiatives will provide the local youth a platform to showcase their sporting talents.



Community Infrastructure Development-

With an aim to empower women of its operational areas and to make them self-reliant, ArcelorMittal Nippon Steel India, as part of its CSR initiative under “Nirman,” has set up a Lok Vikas Kendra (LVK) at Nuagarh village, which was inaugurated today by Sri Sampad Chandra Swain, Hon’ble Minister of State (Ind. Charge), Industries, Skill Development and Technical Education, Govt. of Odisha, and local MLA in the presence of Sri Debendra Rout, Sarpanch, Nuagarh on February 02, 2025.

Under this project, the women members of the Self-Help Groups (SHG) of the Nuagarh village will impart training on mushroom cultivation, tailoring, terracotta, soft toy making, various millet products, processed dry food, and phenyl making. In addition to the vocational training.

The Lok Vikas Kendra (LVK) will be playing a pivotal role in transforming the lives of the women. More than 600 women will be benefitted by this project. This will help the local women to develop and set up their own unit. To provide them sustainable livelihood opportunities, the company is also facilitating market linkages and value chain development for the products produced by the communities.



Other Initiatives-

Relief Support-

- AMNS INDIA supported the district administration with relief materials in managing the cyclone affected villagers as a part of precautionary measures as a part of managing the cyclone Dana.
- The main challenge in the disaster affected area is the availability of dry food, water bottles, polythene sheets etc..
- Realizing the situation AMNS INDIA has supported the district administration with following relief items as a part of need of the hour.

- The materials were delivered at the block headquarters in the office of Block development Officer Kujang and Municipality office Paradeep.
- A total of
 - Dry Rice- 1500 KG
 - Sugar- 700 KG
 - Biscuit- 2000 Packets
 - Water Bottle- 7000 Numbers
 - Match Box- 1000 Packets
 - Candle- 2000 Nos.
 - Polythene Sheet- 1000 Pieces



Observation of International Women's Day 2025

"Arcelor Mittal Nippon Steel, through its CSR Initiatives, is engaged in various Socio-economic development activities in the field of Health, Education, Sustainable Livelihood, infrastructure Development etc. Among these Women Empowerment has gained its importance.

As a part of the process International Women's Day was celebrated in the periphery Gram panchayats of AMNS plant at Paradeep in Nuagarh, Paradeepgarh and Bhutmundai Grampanchayats on 8th March 2025. Women and ladies from the nearby villages participated in the programme to make it a grand success. Many competitions like Debate, Quiz, song was organized to show case their talent and they were also awarded with prizes. Many representatives from with Self Help Group women, village health worker, Anganwadi supervisor, and others participated in the event.

Local PRI members like Mr. Debendra Rout Sarpanch Nuagarh, Mrs. Sasmita Behera Sarpanch Paradeepgarh, Mr. Rohit Swain, Sarpanch, Bhutmundai and other Intellectuals of Paradeep region participated in the event and presented their views on women progress and empowerment. In this occasion the guests were of the opinion that though Govt has taken many schemes for upliftment of rural women, CSR support has also accelerated the speed of development".



For the month of October 2024- March 2025

Sl. No	Thematic Area	Lives Touched
1	Health	8345
2	Education	11538
3	Livelihood/Skill Development	2279
4	Portable Water & Infra	600
5	Other Initiatives	4050
Total		26812
