

Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	SEIAA/1925
Compliance ID	1229839716
Compliance Number(For Tracking)	EC/M/COMPLIANCE/1229839716/2026
Reporting Year	2026
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	31-05-2026
RO/SRO Name	Shri Senthil Kumar Sampath
RO/SRO Email	agmu156@ifs.nic.in
State	ODISHA
RO/SRO Office Address	Integrated Regional Offices, Bhubaneswar

Note:- SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, ODISHA with Notification to Project Proponent.



The Member Secretary
SRF-2/1, Acharya Vihar, Unit-IX, OPTCL Colony,
Anand Bazar, Bhoi Nagar,
Bhubaneswar – 751022
Email: mef.or@nic.in

MD/ENV/ 69 /116 / 2026
Date: 25.05.2026

Ref: Environmental Clearance letter no. SEIAA-329 (SEIAA-38/11) dated 29.06.2011 & Extension of Environmental Clearance vide letter no. SEIAA/1925 dated 31.08.2016.

Sub: Half-yearly compliance status report of Environmental Clearance conditions for the period of October 2025 – March 2026 in respect of Manmora Manganese Mine, M/s- Tata Steel Limited.

Dear Sir,

Kindly find attached herewith the half-yearly compliance status report in respect of the stipulated Environmental Clearance conditions of Manmora Manganese Mine, M/s Tata Steel Limited for the period from **October 2025 – March 2026**. Also, the compliance for the same period vide office memorandum no. Z-11013/57/2014-IA. II (M), dated 29.10.2014, is also attached herewith as Annexure - A. The same has been mailed in soft copy to your good office on email: mef.or@nic.in for your ready reference.

We trust that the measures taken towards environmental safeguards comply with the stipulated environmental conditions. We look forward to your further guidance which will certainly help us in our endeavour for further improving our Environmental Management practices.

Thanking you,

Yours faithfully,

f: M/s Tata Steel Limited

Area Manager (Environment), OMQ

Encl.: As above

Copy to : The Chairman, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700107 (W. B.)
: The Member Secretary, State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit – VIII, Bhubaneswar – 751012 (Odisha)
: The RO, SPCB, College Road, Baniapata, Keonjhar-758001 (Odisha)

TATA STEEL LIMITED

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Half Yearly Compliance Report for the period
October 2025 to March 2026

ENVIRONMENTAL CLEARANCE NO. SEIAA-38/11 OF MANMORA MANGANESE MINE
OF TATA STEEL LIMITED VIDE SEIAA's LETTER NO. SEIAA/329 DATED 29.06.2011

Sl. no	Stipulated Conditions	Compliance status
<p>Name of Project: Manmora Manganese Mine of Tata Steel Limited. Clearance Letter No.: SEIAA/329 DATED 29.06.2011 Period of Compliance: October 2025 to March 2026</p>		
1	<p>The earthen embankments are planned as per WAPCO design; it needs stone walling on both sides to prevent collapse of the embankment as immediately down of the mine are the townships, railway line and some agricultural land.</p>	<p>Complied.</p> <p>The outer face as well as the inner face of the embankment has been stone patched to prevent collapse of the embankment. Photograph of Stone Pitched Embankment is attached as Annexure- 1.</p>
2	<p>Since the mine has been fully worked and mineral resources have been fully removed, mine closure plan should be implemented forthwith reclaiming the mine pits and re-vegetation of the mine lease area.</p>	<p>Complied.</p> <p>The mined-out pit of Manmora Manganese mine over 6.46 ha has been reclaimed by filling of slime. The void consists of 0.6 million tons of resources in the form of slime. The slime will be allowed to settle down for few years and feasibility studies has under process for its future use. Once the slime is extracted, the entire area will be reclaimed by afforestation. However, progressive reclamation is carried out by plantation in the lease area as per approved Progressive mine closure plan.</p>
3	<p>The existing overburden dumps and the entire quantity of waste generated shall be back filled and liquidated within five years and there shall be no external overburden dump in the mining lease area. The back filled area shall be afforested and back filling has to be done in a manner that it is restored to the normal ground level. A complete mine closure plan with afforestation/ re-vegetation component with year wise details submitted to the SEIAA within six months and strictly implemented.</p>	<p>Complied.</p> <p>Reclamation as per progressive Mine closure plan approved by IBM is being done. Reclamation is being done through Plantation.</p>

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Name of Project: Manmora Manganese Mine of Tata Steel Limited. Clearance Letter No.: SEIAA/329 DATED 29.06.2011 Period of Compliance: October 2025 to March 2026		
4	The project proponent shall prepare wildlife conservation plan in consultation with DFO and adequate safety and mitigation measures should be incorporated to protect the wild life, flora, fauna to mitigate adverse impact.	Complied. Tata Steel has deposited Rs. 2,88,57,000/- (Rupees Two crore eighty-eight Lakhs Fifty - Seven Thousand Only) to forest Department for implementation & management of Regional Wild Life Management Plan.
5	Shelter Belt i.e. Wind Break of 15m width consisting of at least 5 tiers around the lease facing the human habitation, school / agricultural land etc. (if any in the vicinity), in the safety zone / backfilled & reclaimed areas around voids & roads shall be raised. Green belt development and selection of plant species shall be as per CPCB guidelines. Density of the trees has to be around 2500 plants per hectare. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation. Help & guidance of local DFO may be sought in the matter. Details of year-wise afforestation programme including rehabilitation of mined out area shall be submitted to the SEIAA, Odisha within six months.	Complied. Development of green belt and reclamation is being adhered in accordance with Approved Progressive Mine Closure Plan. Plantation photographs are attached as Annexure- 2.
6	The applicant (Project Proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Noise Pollution and Land Pollution including solid waste management as mentioned by him in Form-1, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.	Complied. As the entire mineable resource has been depleted, no further mining activities is being undertaken within the lease hold area. However, subgrade mineral dump will be re-handled, and low-grade material will be recovered in the future as per mine plan. Hence, at present there is no Air Pollution, Noise Pollution and Land pollution could be observed which emanates from Manmora Mn Mine. Further, to control the air pollution during dry seasons, water sprinkling by mobile water tanker is being done.
7	The applicant will take necessary steps for socio-economic development of the people of the area on need based assessment for providing employment, education, health care, drinking water and	Complied. The company deploys the Tata Steel Foundation for socio-economic development of the area on need based assessment by providing

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Name of Project: Manmora Manganese Mine of Tata Steel Limited. Clearance Letter No.: SEIAA/329 DATED 29.06.2011 Period of Compliance: October 2025 to March 2026		
	sanitation, road and communication facilities etc. after a detailed primary socio-economic survey.	employment, education, health care, drinking water and sanitation.
8	The applicant will comply to the points, concerns and issues raised by the people during public hearing on 01.02.2010 in accordance with the commitments made by him thereon.	Complied. Most of the commitments made during the Public Hearing, have been complied.
9	The project proponent shall take necessary safeguard measures to ensure that there is no leaching from the tailing pond.	Complied. The Tailing dam has been designed by M/s. WAPCOS Ltd. a Central Govt. organization having expertise in designing and construction of such dams. Adequate safeguard measures have been taken to prevent any leaching from the tailing dam. No spill or leaching incidents have taken place to date.
10	The decanted water from the tailing pond shall be re-circulated and there should be zero discharge from the tailing pond.	Complied. The slime is stored in the zero-discharge slime pond. The decanted water from the slime pond is completely recycled back to beneficiation plant within the Joda East Iron Mine ensuring zero outside discharge.
11	The applicant will take statutory clearance / approval / permissions from the concerned authorities in respect of his project as and when required.	Complied. All required statutory clearances/ approvals/ permissions from the concerned authorities in respect of the project have been obtained.
12	For post environment clearance monitoring, the applicant will submit half-yearly compliance report in respect of stipulated terms and conditions of Environment Clearance to the State Environmental Impact Assessment Authority (SEIAA), Orissa on 1 st June & 1 st December of each calendar year.	Complied. The Half yearly compliance report for the year in respect of the stipulated terms and conditions of the EC is regularly submitted to the State Environmental Impact Assessment Authority (SEIAA), Orissa and Regional Office of the Ministry of Environment and Forests, Bhubaneswar and the same has been uploaded in Tata Steel official website www.tatasteel.com.
13	The core zone should be monitored intensively with nos. of stations as prescribed by CPCB, Delhi. The detailed methodology adopted for analysis of samples shall be clearly indicated.	Complied. Due to small lease area and non-operative mine, one ambient air monitoring station has been identified at the stack yard which will active during manual processing of sub-grade and mineral

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Name of Project: Manmora Manganese Mine of Tata Steel Limited. Clearance Letter No.: SEIAA/329 DATED 29.06.2011 Period of Compliance: October 2025 to March 2026		
		reject of manganese ore. The detailed methodology for analysis of samples are furnished below- a. PM ₁₀ : Avg. Flow rate not less than 1.1 m ³ / min b. PM _{2.5} : Avg. Flow rate not less than 1.1 m ³ / min c. SO ₂ : Improved West Gaeke & Ultraviolet Fluorescence d. NOx: Jacob & Hochhelser modified (Na-Arsenite) and Gas Phase Chemiluminescence e. CO: Non-dispersive Infrared Spectroscopy & f. Mn: Colorimetric method
14	The proponent shall submit base line data on flora and fauna and CSR activities carried out within three months to the SEIAA.	Complied. The base line data on flora & fauna and the list of CSR activities already carried out in the area have been submitted to SEIAA vide our letter No. MD/ENV/519/116/2011, dated: 07/10/2011.
15	The following shall be implemented viz (a) dump run-off should be diverted into a settling pond (b) adequate rainwater harvesting and ground water recharging facilities should be developed in the core zone (c) attempt should be made to achieve zero water balance.	Complied. Waste dump had become inactive and therefore the slopes have been stabilized by plantation to prevent soil erosion. Catch drains and a garland drain has been provided along the entire dump slope which emanates at low lying part to sedimentation pit. Further, the catch drains and sedimentation pits are periodically de-silted and maintained properly. Rainwater harvesting and ground water recharge facilities have been made at the mine site.
16	Maintenance of roads through which transportation are undertaken shall be carried out by the project proponent regularly at its own cost.	Complied. All the haul roads are made up of morrum & compacted. Regular repair is being done by dozer & grader after spreading the layer of morrum over it. Water sprinkling arrangement is adequate for suppressing the road dust.
17	Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of near human habitation (including schools and	Complied. The AAQ (fugitive dust) being monitored at one location (near stack yard) twice in a week.

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Name of Project: Manmora Manganese Mine of Tata Steel Limited. Clearance Letter No.: SEIAA/329 DATED 29.06.2011 Period of Compliance: October 2025 to March 2026		
	other public amenities located nearest to sources of dust generation as applicable) and records shall be submitted to SEIAA, Odisha.	Data on ambient air quality monitoring for every month is being submitted to State Pollution Control Board. Abstract of the monthly monitoring data on ambient air quality is enclosed as Annexure- 3. There has been no mining activity at Manmora Mn. Mines during the period April 2024 to September 2024 therefore, no fugitive dust emission monitoring has been carried out.
18	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.	Complied. The mineral handling is only by manual means during dry season only for manual processing (sorting and sizing) and screening of available sub grade and mineral rejects available at pit head. So, water sprinkling over the area is sufficient to allay the dust generation.
19	Transportation shall be done by covering the trucks by tarpaulin or other suitable mechanism so that no spillage of ore / dust takes place.	Complied. The trucks are being covered with tarpaulin during dispatch of manganese ore from mine to Ferro Alloys Plant and Railway Siding located at Joda.
20	Rain Water Harvesting shall be undertaken to recharge the ground water source.	Complied. Rainwater harvesting pond has been made at the side of the mining lease under expert consultation of M/s. KRG Foundation, Chennai, to recharge the ground water.
21	Monitoring of ground and surface water quality shall be regularly conducted and records should be maintained and data shall be submitted regularly to the SEIAA.	Complied. The ground water quality at existing well outside the lease hold area and surface water quality is being monitored and the analysis results are sent to OSPCB RO office.
22	The proponent shall ensure that no silt originating due to mining activity is transported in the surface water course. Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo-textile matting or other suitable material	Complied. Waste dump had become inactive and therefore the slopes have been stabilized by plantation to prevent soil erosion. Catch drains and a garland drain has been provided along the entire dump slope which emanates at low lying part to sedimentation pit.

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	and thick plantation of native trees and shrubs shall be carried out at the dump slopes. Dump shall be protected by retaining wall.	Further, the catch drains and sedimentation pits are periodically de-silted and maintained properly. The retaining wall of 710 mtr. has been provided at the toe of the waste dump.
23	Trenches/ garland drains shall be constructed at foot of dumps to arrest silt from being carried to water bodies. Adequate check dams shall be constructed across the seasonal/perennial nallahs (if any) flowing through the ML area and silts be arrested. De-silting at regular intervals shall be carried out.	Complied. Catch drains and garland drains are covering the entire dump slope at toe part. Similarly, a garland drain with settling pit has been provided near the railway track and causeway near railway culverts for directing the flow of surface run-offs after settling.
24	Provision shall be made for the housing of labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may in the form of temporary structures to be removed after the completion of the project.	Complied. Housing facilities for the employees has been provided within a centralized camp at Joda East beyond the mining lease hold area.
25	Occupational health and safety measures for the workers including identification of work related hazards, training on malaria eradication, HIV and healthy effects on exposure to mineral dust etc. shall be carried out. The proponent shall engage a full time qualified doctor who is trained in occupational health. Periodic monitoring of exposure to respirable mineral dust on the workers shall be conducted and record maintained including health record of workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years or less) shall be conducted followed by follow up action wherever required. Occupational Health Center shall be established near the mine	Complied. The production of finished ore will be continued by manual screening and processing of sub-grade mineral and mineral rejects already available at pit head during dry season only. Due to this temporary nature of job, the laborers from our Joda West Manganese Mine will be deployed at the mine. Hence, Periodical Medical Examination of employees (departmental & contractual) are conducted as per prescribed norms of Mines Rule, 1955 at Joda West Mn. Mine covering the workers identified for Manmora. The initial and periodical examination includes blood hematology, blood pressure, detailed cardiovascular assessment, neurological examination etc. All chest radiographs are being classified for detection of pneumoconiosis, diagnosis and documentation made in accordance to ILO classifications.

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Name of Project: Manmora Manganese Mine of Tata Steel Limited. Clearance Letter No.: SEIAA/329 DATED 29.06.2011 Period of Compliance: October 2025 to March 2026		
	itself.	
26	The Environmental Clearance is subject to Forest Clearance under Forest (Conservation) Act, 1980.	Complied. Forest clearance over the entire forest area of 9.373 Ha within the lease has been granted along with FC of Joda East Iron Mine vide letter no. F. No. 8-32/1993-FC (vol-II), dated 24.09.2007.
27	The mining operation shall be restricted to above ground water table and it should not intersect the ground water table.	Being Complied. Mining is not intersecting the ground water as the ground water being at lower level in comparison to existing maximum quarry depth. No further mine development will be in place due exhaustion of mineable resource.
28	The topsoil shall be temporarily be stored at earmarked site (s) only and it should not be kept unutilized for long (not more than 3 years). The topsoil shall be used for land reclamation and plantation.	No topsoil was generated during this period because there was no mine development work undertaken due to exhaustion of mineable resource.
29	The fund earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes. Year-wise expenditure for this fund should be reported to the SEIAA, Odisha.	Complied. Funds allocated for environmental management are spent only for environment related purposes and not diverted to any other purpose. Moreover, where replacing the loose boulder retaining wall with cemented retaining wall at strategic points in the cost included in mining operation.
30	The critical parameters in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharge water shall be monitored {[TDS, DO, pH and Total suspended solids (TSS)}. The monitored data shall be uploaded on the website of the company sa well as displayed on a display board at the project site at a suitable location near main gate of the company in public domain. The Circular No. J-20012/1/2006-IA.II(M), dated	Complied. The critical parameters in the Ambient Air Quality are being analyzed. The monthly average of analysis is enclosed as Annexure-3: AAQ monitoring report. There is no blasting operation being carried out within lease hold area as there is no mine developmental work due to exhaustion of mineable resource. There is no generation of mine drainage water as the mine is working at high hill slope area and does not intersect the ground water table.

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Name of Project: Manmora Manganese Mine of Tata Steel Limited. Clearance Letter No.: SEIAA/329 DATED 29.06.2011 Period of Compliance: October 2025 to March 2026		
	27.05.2009 issued by MoEF&CC which is available on the website of Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	The monitoring data has been displayed on a board near entrance of the mine.
31	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) required for the project.	Complied. Water required for water sprinkling and drinking water during dry season is being supplied from Joda West Manganese Mine which has got the surface water drawl permission from competent authority.
32	The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result withdrawal of this environmental clearance and attract penal action under the provisions of Environmental Protection (EP) Act, 1986.	Complied. All the conditions mentioned above are complied.

Annexure- A
EC compliance as per circular no. Z-11013/57/2014-IA.II (M) dated:29th Oct 2014

Sl. No.	Condition	Compliance Status
Name of Project: Manmora Manganese Mine of Tata Steel Limited. EC compliance as per circular no. Z-11013/57/2014-IA.II(M) dated:29 th Oct 2014 Period of Compliance: April 2025 to September 2025		
A	The Project Authority shall adopt Best filming Practice for the given mining conditions. In the mining area, adequate number of check dams, retaining walls/structures, garland drains and settling ponds should be provided to arrest the wash – off with rain water in catchment area.	Noted and complied
B	The natural water bodies and or streams which are flowing in and around the village should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Authorities have to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug well located in village should be incorporated to ascertain the impact of mining over ground water table.	Noted and complied
C	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right to darkness and minimal noise levels at night. The Project Proponents (PPs) must ensure that the biological clock of the villagers is not disturbed by orienting the floodlights/ masks away from the noise levels well within the prescribed limit's for day/night hours.	Not Applicable
D	The Project Authority shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing. In this context, Project Authority should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid- which provide mid – day shelter from the scorching sun should be scrupulously guarded against felling lest the cattle abandon the grazing ground or return home by noon.	Not Applicable
E	Where ever blasting is undertaken as part of mining activity, the Project Authority shall carry out vibration studies well before approaching any such habitats or other buildings to evaluate the Zone of influence and impact of blasting on the neighborhood. Within 500 meters of such sites vulnerable to blasting vibrations, avoidance of use of explosives and adoption of alternative means of mineral extraction, such as ripper/dozer combination/rock breakers/ surface miners etc. should be seriously considered and practiced wherever practicable. A provision for monitoring of each blast should be made so that the	Not Applicable

Sl. No.	Condition	Compliance Status
Name of Project: Manmora Manganese Mine of Tata Steel Limited. EC compliance as per circular no. Z-11013/57/2014-IA.II(M) dated:29 th Oct 2014 Period of Compliance: April 2025 to September 2025		
	impact of blasting on nearby habitation and dwelling units could be ascertained, The covenant of lease deed under Rule 31 of MCR 1960 provides that no mining operations shall be carried out within 50 meters of public works such as public roads and buildings of inhabited sites except with in prior permission from the Competent Authority.	
F	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. Crusher and material transfer points should invariably be provided with Bag filters and or dry logging system. Belt- conveyors should be fully covered to avoid air borne dust.	Not Applicable
G	The Project Authority shall ensure that the productivity of agricultural crops is not affected due to mining operations. Crop Liability Insurance Policy has to be taken by the PP as a precaution to compensate for any crop loss. The impact zone shall be 5km from the boundary of mine lease-area for such insurance policy. In case, several mines are located in a cluster, the Associations of owners of the cluster mines, formed inter-alia, to sub-serve such an objective, shall take responsibility for securing such drop Liability Policy.	Not Applicable
H	In case any village is located within the mining leasehold which is not likely to be affected due to mining activities during the life of mine, the Expert. Appraisal Committee (EAC) should consider the proposal of Environmental Clearance (EC) for reduced mining area. The Mining lease may be executed for the area for which EC is accorded. The mining plan may also be accordingly revised and required stipulations under the MMDR Act, 1957 rind MCR, 1960 met.	Not Applicable
I	Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The PP shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.	Not Applicable
J	Likewise, alteration or re-routing of foot paths, pagdandies, cart roads, and village infrastructure/public utilities or roads (for purposes of land acquisition for mining) shall be avoided to the	Not Applicable

Sl. No.	Condition	Compliance Status
Name of Project: Manmora Manganese Mine of Tata Steel Limited. EC compliance as per circular no. Z-11013/57/2014-IA.II(M) dated:29 th Oct 2014 Period of Compliance: April 2025 to September 2025		
	extent possible rind in case such acquisition is inevitable, alternative arrangements shall be made first and then only the area acquired. In these types of cases, Inspection Reports by site visit by experts may be insisted upon which should be done through reputed Institutes.	
K	As CSR activities by Companies including the Mining Establishments has become mandatory up to 2% of their financial turn-over, Socio Economic Development. of the neighborhood Habitats could also be planned and executed by the PPs more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers on the lines as required under TOR. "R&R Plan/compensation details for the Project affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SC's /ST's and other weaker sections of the society in the study area, a need based sample survey, family wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village located in the mine lease area will be shifted or not. The issues related to shifting of village including their R&R and socio-economic aspects should be discussed in the EIA Report."	Noted and complied

PICTURE SHOWING STONE PITCHING AT THE EMBANKMENT OF MANMORA SLIME DAM



GLIMPSES OF PLANTATION DONE AT MANMORA SITE



Summarised Ambient Air Quality Monitoring Report								
Joda East Iron Ore Mine of M/s Tata Steel Limited								
Period: October 2025 to March 2026								
Mine location	Sampling location	Month	Range	Results in µg/m ³				
				PM10	PM2.5	SO ₂	NO _x	CO
Joda East Iron Ore Mine	Manmora Slime Dam	Oct 25	Avg.	60.9	22.0	12.0	21.9	BLQ (LOQ-0.5)
		Nov 25	Avg.	56.1	25.6	8.4	15.3	BLQ (LOQ-0.5)
		Dec 25	Avg.	57.7	19.6	11.9	21.3	BLQ (LOQ-0.5)
		Jan 26	Avg.	59.8	21.8	18.7	24.3	BLQ (LOQ-0.5)
		Feb 26	Avg.	70.1	32.1	14.5	22.0	BLQ (LOQ-0.5)
		Mar 26	Avg.	73.5	35.7	13.9	19.7	BLQ (LOQ-0.5)
	Rainwater Harvesting	Oct 25	Avg.	53.1	23.8	11.9	20.5	BLQ (LOQ-0.5)
		Nov 25	Avg.	49.3	20.3	7.6	12.9	BLQ (LOQ-0.5)
		Dec 25	Avg.	68.2	28.7	10.5	24.1	BLQ (LOQ-0.5)
		Jan 26	Avg.	56.8	19.9	14.9	18.4	BLQ (LOQ-0.5)
		Feb 26	Avg.	67.2	30.3	13.3	26.7	BLQ (LOQ-0.5)
		Mar 26	Avg.	70.7	31.9	11.9	16.8	BLQ (LOQ-0.5)
	Magazine	Oct 25	Avg.	59.8	20.9	12.0	20.8	BLQ (LOQ-0.5)
		Nov 25	Avg.	55.6	22.6	8.6	14.0	BLQ (LOQ-0.5)
		Dec 25	Avg.	64.5	22.8	10.9	23.2	BLQ (LOQ-0.5)
		Jan 26	Avg.	64.0	21.4	21.3	23.4	BLQ (LOQ-0.5)
		Feb 26	Avg.	73.9	31.8	13.9	25.2	BLQ (LOQ-0.5)
		Mar 26	Avg.	69.8	29.6	13.0	18.0	BLQ (LOQ-0.5)
	Equipment Maintenance	Oct 25	Avg.	60.7	21.6	11.6	22.2	BLQ (LOQ-0.5)
		Nov 25	Avg.	60.5	27.8	10.0	18.7	BLQ (LOQ-0.5)
		Dec 25	Avg.	59.2	23.6	13.8	20.7	BLQ (LOQ-0.5)
		Jan 26	Avg.	62.7	24.4	18.3	20.2	BLQ (LOQ-0.5)
		Feb 26	Avg.	72.8	34.9	12.7	22.9	BLQ (LOQ-0.5)
		Mar 26	Avg.	70.9	32.8	12.8	17.0	BLQ (LOQ-0.5)

Summarised Ambient Air Quality Monitoring Report of Buffer Zone								
Joda East Iron Ore Mine of M/s Tata Steel Limited								
Period: October 2025 to March 2026								
Mine location	Sampling location	Month	Range	Results in µg/m ³				
				PM10	PM2.5	SO ₂	NO _x	CO
Joda East Iron Ore Mine	Baneikela	Oct 25	Avg.	59.6	20.1	11.0	20.9	BLQ (LOQ-0.5)
		Nov 25	Avg.	52.5	22.8	8.1	14.3	BLQ (LOQ-0.5)
		Dec 25	Avg.	66.9	24.5	11.2	23.5	BLQ (LOQ-0.5)
		Jan 26	Avg.	59.6	20.9	11.5	21.7	BLQ (LOQ-0.5)
		Feb 26	Avg.	60.3	21.5	9.1	17.0	BLQ (LOQ-0.5)
		Mar 26	Avg.	60.0	22.5	6.5	12.2	BLQ (LOQ-0.5)
	Lohanda	Oct 25	Avg.	58.2	23.6	11.5	22.2	BLQ (LOQ-0.5)
		Nov 25	Avg.	52.1	20.0	8.2	15.5	BLQ (LOQ-0.5)
		Dec 25	Avg.	58.7	23.0	14.0	24.4	BLQ (LOQ-0.5)
		Jan 26	Avg.	59.4	22.2	15.1	23.9	BLQ (LOQ-0.5)
		Feb 26	Avg.	59.8	22.6	10.3	17.2	BLQ (LOQ-0.5)
		Mar 26	Avg.	59.4	23.2	7.0	13.5	BLQ (LOQ-0.5)
	Khuntpani	Oct 25	Avg.	50.8	20.1	9.3	18.0	BLQ (LOQ-0.5)
		Nov 25	Avg.	63.0	28.1	10.6	17.9	BLQ (LOQ-0.5)
		Dec 25	Avg.	59.0	22.3	15.2	23.9	BLQ (LOQ-0.5)
		Jan 26	Avg.	59.3	22.1	15.4	23.6	BLQ (LOQ-0.5)
		Feb 26	Avg.	59.9	22.7	7.7	18.1	BLQ (LOQ-0.5)
		Mar 26	Avg.	60.2	23.8	6.9	12.8	BLQ (LOQ-0.5)
	Joda Hospital	Oct 25	Avg.	60.5	21.4	11.2	23.1	BLQ (LOQ-0.5)
		Nov 25	Avg.	61.1	30.2	9.8	18.4	BLQ (LOQ-0.5)
		Dec 25	Avg.	59.3	24.0	13.9	23.6	BLQ (LOQ-0.5)
		Jan 26	Avg.	58.4	21.7	8.7	15.6	BLQ (LOQ-0.5)
		Feb 26	Avg.	58.8	22.1	7.4	14.3	BLQ (LOQ-0.5)
		Mar 26	Avg.	59.2	23.1	7.5	9.8	BLQ (LOQ-0.5)