



Ref: NINL/KJR/2023/152

Date: 09.12.2023

**The Additional PCCF(C)
Eastern Zone Regional Office
MoEF& CC, Govt. of India
A/3, Chandrasekharpur
Bhubaneswar-751 013
Email: roez.bsr-mef@nic.in**

Sub: Submission of Half yearly compliance status report of Environmental Clearance conditions for the period April '23- Sept'23 in respect of Neelachal Iron Ore Mines of M/s Neelachal Ispat Nigam Ltd. (ML area-874.290 Ha) in Sundargarh & Keonjhar district of Odisha

Ref: Environmental Clearance letter no: J-11015/55/2010-IA. II(M) dated 15.06.2018

Dear Sir,

Kindly find enclosed herewith the six monthly compliance report along with monitoring data in respect of Neelachal Iron Ore Mines of M/s Neelachal Ispat Nigam Ltd. for the period from April '23- Sept'23 as per EIA notification 2006. The same has been mailed in soft copy to your good office on email: roez.bsr-mef@nic.in for ready reference.

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

Thanking You.

Yours faithfully

DGM(Geology)

Encl: As above.



- Copy to:
1. The Chairman, Central Pollution Control Board, Sothern Conclave, Block 502, 5th & 6th floors, 1582 Rajdanga Main Road, Kolkata.-700107 (W.B).
 2. The Member Secretary, State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012.
 3. The Regional Officer, SPCB, Rourkela, Sundargarh.

NEELACHAL ISPAT NIGAM LIMITED

Kalinga Nagar Industrial Complex Duburi 755 026 Odisha India
Corporate Identification Number U27109OR1982GOI001050

**Point Wise Compliance to Conditions of Environment Clearance
of
Neelachal Iron Ore Mines of Neelachal Ispat Nigam Limited
EC no. J-11015/55/2010-IA. II (M) dated 15.06.2018 for 2 MTPA
(April 2023 – September 2023)**

Sl. No.	EC Conditions	Compliance status as on date
Specific conditions:		
1.	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Pune, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	All the judgements applicable for this project will be strictly followed. However the project is in operation after obtaining requisite regulatory clearances i.e Forest Clearance vide ref F. No. 8-68/2013-FC dated 22.07.2019, Env't. Clearance vide no: J-11015/55/2010-IA. II(M) dated 15/06/2018, CTO vide no: 4436/IND-I-CON-6674 dtd.23.03.23 and CGWA clearance vide no: CGWA/NOC/MIN/ORIG/2023/17541, dated 12/01/2023 etc.
2.	No mining activities will be allowed in forest area for which the Forest Clearance is not available.	The Stage II forest clearance obtained for total forest area of 806.153 ha within the ML area issued vide ref F. No. 8-68/2013-FC dated 22.07.2019. Mining & other ancillary activities is confined within above 806.153 ha.
3.	The Environmental Clearance is subject to obtaining requisite NBWL Clearance, if any, from the Standing Committee of National Board for Wildlife for Mining project.	There are no Protected Areas such as National Park, Wildlife Sanctuary etc. within 10 kms of the lease area. Hence it is not applicable. However, fund towards Regional Wildlife Conservation plan & Site-Specific Wildlife Conservation plan has been deposited with CAMPA as demanded.
4.	The Project Proponent shall obtain Consent to Operate from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.	Consent to Operate from the State Pollution Control Board, Odisha obtained vide letter no. 4436/IND-I-CON-6674 dtd.23.03.23 valid till 31.03. 2024. The conditions stipulated therein are being implemented.
5.	The Proponent shall install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and turbidity meters at discharge points of STP and ETP and also at water storage ponds in the mining area may be made. Project Proponent should display the result digitally in front of the main Gate of the mine site.	<p>Three units of online AAQ monitoring system have been procured & one unit has been installed near Mine Gate (Core Zone). Two online systems will be installed in the core zone while one online system will be installed in the buffer zone as per the predominant wind direction in consultation with RO, OSPCB. Regular monitoring of environmental parameters is being carried out through an agency having NABL accreditation.</p> <p>All the treated water from STP and ETP will be reused for water sprinkling purpose as well as horticulture purpose. There will be zero discharge of wastewater / treated water outside the lease area. Online provisions of pH and turbidity meters at discharge points of STP and ETP and at water storage ponds in the mining area will be made in course of mining operation.</p> <p>In order to display the monitoring results, one digital display board has been installed in front of main gate of the Mine.</p>

6.	<p>Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table. The intersecting ground water table can only be commenced after conducting detailed hydro geological study and necessary permission from the CGWA/ MoEF & CC. The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board.</p>	<p>Mines being operated in a hilly terrain the chances of intersecting ground water table is least.</p> <p>In case the mining operation is going to intersect the ground water table in the later stage of mining operation, prior permission of CGWA will be obtained.</p> <p>Detailed Hydro Geological study has been carried out by accredited consultant (M/s Anacon Labs Pvt Ltd).The Report on six monthly basis on changes in Ground water level and quality will be submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board.</p>
7.	<p>Project Proponent should plant only native species for green belt development. Plantation of local species should be carried out during the Monsoon Season.</p>	<p>As proposed in approved Mining plan, we had already planted 3302 saplings reported during last six monthly compliance & further 1200 saplings during current six month period ending 30.9.23 with native species over i.e. Karanja, Sisoo, Baula, Mahaneem, Guava etc. over an area of 1.88Ha. within ML boundary safety zone.</p>
8.	<p>The project should also implement community Development and Welfare programme in the area of Health, Education and Environmental Protection.</p>	<p>Community development & welfare programme in health, drinking water, Education, Solar light, communication and Environmental Protection are being taken up within peripheral villages through Tata Steel Foundation. Few photographs on CSR Activities:-</p>  





9. Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measure taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; the prevention measure for burns, malaria and provision of anti-snake

Initial & Periodical Occupational Health check-ups/ medical examination of the workers engaged in the Mines by Occupational Health Specialist at Tata Steel hospital, Joda are being done and maintaining records.

In addition to the above free medical check up camps with free medicines are being organised in all the peripheral villages. One full time Doctor assisted by Pharmacist & Nurse are regularly attending the patients in peripheral villages. One Ambulance has been deployed 24x7 days of the year for shifting serious patients to referral hospitals.



venom including all other paramedical safeguards may be ensured before initiating the mining activities.



10. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages. The Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.

The existing transport road is well connected to the railway siding & State highways. This road bypasses adjacent villages. These haul roads are being repaired regularly. However, construction of concrete road from Mandajoda to Sargigad for a distance of about 10 km with an estimated cost of Rs 30 crore is under progress as per the direction of Local administration under CSR scheme.





11. Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing.

Action Plan on the issues raised during the Public Hearing is under implementation through Tata Steel Foundation in phased manner in consultation with the District Administration. Following jobs are being taken up in the periphery of Mine:

- Local Employment:- Direct-444 heads
Indirect-about 1000
- Transportation of Ore through local vendors i.e. Kapileswar Transport & KPS Logistics
- Provision of Solar light: 157 provided
- Provision of Drinking water-18 nos deep borewells with solar pump
- Medical facility:- One doctor, one Pharmacist & One nurse are available for mobile treatment with Ambulance & free medicines

		<p>Educational support: One school bus(35 seater) provided for attending schools at Koira</p> <p>Environmental protection.: Afforestation, regular water sprinkling over haul roads, toe wall & garland drain/ settling pit construction, Emt. monitoring etc.</p>
12.	Project Proponent shall ensure the safeguard and wellbeing of villagers and school, regular health Monitoring of all residents in the area and the compliance Report shall be submitted to the regional office of the Ministry.	Free medical check up camps are conducted along with free medicines for the villagers on regular basis accompanied by Doctors, Pharmacists & Nurses. In addition to this one ambulance (24x7) is stationed at Mines for emergencies.
13.	Project Proponent shall comply all the Recommendations of CSIR-NEERI study Report on "Carrying Capacity Study for Environmentally Sustainable Iron and Manganese Ore Mining Activity in Keonihar, Sundargarh and Mayurbhanj districts of Odisha State.	All the Recommendations of CSIR-NEERI study Report on "Carrying Capacity Study for Environmentally Sustainable Iron and Manganese Ore Mining Activity in Keonihar, Sundargarh districts of Odisha are being implemented under the guidance of Govt. Administration.
14.	The Department of Mines and Geology. Govt. of Odisha shall ensure the implementation of the recommendations of the Carrying Capacity Study Report submitted by CSIR-NEERI.	Regular visit & direction from DDM, Mines, OSPCB & District Administration is being followed.
Standard conditions:		
1.	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest and Climate Change 5 years in advance of final mine closure for approval.	Will be complied.
2.	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest and Climate Change.	Being Complied.
3.	No change in the calendar plan including excavation, quantum of mineral and waste should be made.	Mining operations are being carried out as per approved Mining plan.
4.	Mining shall be carried out as per the provisions outlined in mining plan approved by Indian Bureau of Mines (IBM)/State Mines and Geology Department as well as by abiding to the guidelines of	<p>Mine plan is approved by IBM, Bhubaneswar vide letter no RMP/A/02-RI/BHU/2021-22 dtd.04.05.2021.</p> <p>Permission under Regulation 106(2)(b) of MMR 1961 has been obtained from DGMS, BBSR Region vide no.330896/SEZ/Bhubaneswar Region II/Perm/2023/255502</p>


	Directorate General Mines Safety (DGMS).	dated 26.06.2023 to carry out deep hole blasting & deployment of HEMM. Mining is being carried out as per the provisions of approved Mining plan & also as per the guidelines of DGMS.
5.	The lands which are not owned by Proponent, mining will be carried out only after obtaining the consents from all the concerned landowners as per the provisions of the Mineral Concession Rules, 1960 and MMDR Act,1957.	At present mining is done over forest & non-forest govt land. However proper procedure will be followed under the provision of MCR 1960 & MMDR Act 1957 during mining over private land if need to be acquired in course of mining operation.
6.	Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment, Forest and Climate Change its Regional Office.	Final forest clearance was granted in July 2019. Drone survey over ML has been is being carried out every year. Digital processed data based on remote sensing technique will be submitted.
7.	The critical parameters as per the Notification 2009 such as PM10, PM2.5, NO2, and SO2 etc. 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 discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	Monitoring of critical parameters in ambient air is being done regularly. The quality of discharged water is also being monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. Copy of the report is enclosed as Annexure The digital display board has been installed in front of mines gate showing reports on various environmental parameters.
		
8.	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading point and transfer points. Fugitive dust	Two nos. of water tankers (12000 ltr capacity each) are deployed for sprinkling over haul road, loading & unloading points and other dust prone areas on regular basis.

	<p>emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.</p>	<p>Regular monitoring of AAQ parameters being done and it is within prescribed norm of CPCB.</p> 
<p>9.</p>	<p>Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. The monitoring shall be carried out four times in a year pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board.</p>	<p>Being monitored as per provision. Copy of the reports is enclosed at Annexure. No natural water course is being obstructed due to mining activities as there are no natural water streams inside the ML area</p>
<p>10.</p>	<p>Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are</p>	<p>Regular monitoring of flow rate of springs & perennial nallahs flowing in the buffer zone of ML area is being done.</p>

	<p>flowing in an 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 Proponent has 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.</p>	
11.	<p>Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.</p>	<p>Regular monitoring is being done through M/s Anacon Laboratories (an NABL accredited lab) and the data is being submitted to all govt. bodies.</p>
12.	<p>The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres.</p>	<p>Being Complied Water sprinkling is done regularly. The vehicles with PUC certificates are allowed to operate inside the mine.</p>
13.	<p>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 project proponent 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</p>	<p>Being Complied The existing transport road is away from villages & well connected to the railway siding & State highways. This transport road is being maintained regularly & water sprinkling also done regularly. The concreting of transport road is under progress with an estimated cost of Rs 30 Crores to minimize the dust emission during ore transportation.</p>

	appropriately increasing the carrying capacity of such roads.	
14.	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 for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.	All precautionary measures are being taken not to disturb both human and animal population. Moreover, the habitations are located about 2kms away from mines.
15.	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 fogging system. Belt-conveyors should be fully covered to avoid air borne dust.	<p>Mining operation commenced during Oct 2021 & the mine is in its initial development phase. Thus, no permanent haul roads are developed at present. As per progression of mining activities, permanent haul roads shall be developed as per approved mining plan & equipped with Fixed Water Sprinklers for dust control.</p> <p>Two water tankers of 12KL capacity are engaged in dust suppression.</p> <p>The Crushing & Screening plants are equipped with dust suppression system i.e. dry fog & water sprinklers. Wet drilling is being carried out to prevent dust emission.</p>
16.	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. The material transfer points should invariably be provided with Bag filters and or dry fogging system. In case of Belt-conveyors facilities the system should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.	Being implemented as above.
17.	Sufficient number of Gullies to be provided for better management of water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment,	Mining operation commenced during Oct 2021 & the mine is in its initial development phase. Therefore, no prominent OB dumps are present at site as per current situation. However, as mining advances, proper channelization of water shall be provided to avoid siltation from OB dumps.

	Forest and Climate Change and its Regional Office on six monthly basis.	pH is being monitored by M/s Anacon Laboratories (an NABL accredited lab) on regular basis & reports are being shared.
18.	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.	A site-specific rainwater harvesting scheme has been prepared by M/s KRG Rainwater foundation. The recommendations provided will be implemented during life of mine for rainwater harvesting.
19.	The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/levelling with the help of dozer/compactors	<p>Mining operation commenced during Oct 2021 & the mine is in its initial development phase.</p> <p>Thus, there is no prominent OB dump existing in the mine. However, proper precautions will be taken to address gullies formation as per progression of mining activities.</p> <p>Toe wall with wire net has been constructed on the bottom side of OB dump/Ore fines dump & ROM stack pile to arrest silt during rain.</p>
20.	The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adapted to that microclimate.	<p>Mining operation commenced during Oct 2021 & the mine is in its initial development phase.</p> <p>However, the reclamation will be done in accordance with approved mining plan & Progressive Mine Closure Plan.</p>
21.	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to	<p>About 3000 m³ of topsoil has been recovered during mining operation is stored at earmarked site and same is being utilized for plantation work.</p> <p>Mining operation commenced during Oct 2021 & the mine is in its initial development phase.</p> <p>However, OB generated shall be stored only at earmarked site in accordance with approved mining plan as per guidelines laid by DGMS & IBM.</p> <p>Reclamation activities shall be done as per Progressive Mine Closure Plan.</p> <p>Backfilling & afforestation shall be done in accordance with Approved Mining plan & PMCP.</p>

	<p>prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.</p>	
<p>22.</p>	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>Mining operation commenced during Oct 2021 & the mine is in its initial development phase.</p> <p>Thus, at present the construction of catch drains & siltation ponds will be done as per Approved Mining Plan & PMCP.</p>

<p>23.</p>	<p>Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/ Agriculture Department and as per CPCB Guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.</p>	<p>The mine has a Forest area of 806.153 ha which is already covered with heavy natural vegetation.</p> <p>Mining operation commenced during Oct 2021 & the mine is in its initial development phase. As the mining operation progresses, the plantation in Safety Zone shall be done accordingly.</p> <p>Additionally, a total of 4800 m of safety zone has been fenced & planted with native species like Karanj, Neem, Sisoo, Guava etc.</p> <p>Total 4502 no. of saplings have been planted in the safety zone since commencement of mining operation.</p> <p>Remaining portion is being planted with native species as stipulated. So far 4502 saplings have been planted within safety zone. A scheme for fencing, protection & regeneration of Safety zone area has been prepared & approved by State Forest Dept.</p> <p>which is under implementation. Plantation along roads, water bodies, over back filled area & dumps will be taken up in due course.</p> <div data-bbox="724 981 1586 1693" data-label="Image"> </div>
<p>24.</p>	<p>Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA. II(M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-</p>	<p>Adopted requisite mitigation measures like Afforestation, Water sprinkling over haul roads, provision of dry fog system in Crushing & Screening plants, Construction of retaining wall, toe wall, garland drain, provision of employment, drinking water, solar light, medical facility & educational support, so that there</p>

	Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	will be no adverse impact on the habitations & villages located within or around the ML area due to Mining activities.
25.	The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent 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-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.	Out of total 874.29 ha ML area, 806.153 ha is forest land which is covered with vegetation & hence no scope for developing grazing land for Livestock at present. However, will select some part of Non-forest area suitable for developing a grazing land in due course.
26.	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.	No endangered fauna is found in the project area. However, for better conservation of flora & Fauna the project proponent has deposited a sum of Rs.7.17 Cr towards Regional Wild life conservation plan of this area. Moreover, a site-specific Wildlife conservation plan duly approved by PCCF (Wild life), Odisha with an estimated cost of Rs.4.03 crore is under implementation as per the advice of DFO, Bonai.
27.	At least 1.5% of the total cost of the project shall be earmarked towards the Corporate Environment Responsibility (CER) based on Ministry's OM issued vide No. F.No.22-65/2017 -IA.III dated 1st May, 2018. The action plan with financial and physical breakup/ details shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.	Mining has commenced during October 2021 & subsequently divested under the guidance of DIPAM, Union Ministry of Finance. However, the action plan with financial and physical breakup/ details shall be prepared and submitted to the Ministry's Regional Office which will be implemented in a time bound manner.

28.	As per the Company Act, the CSR cost should be 2 % of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Economic Development of the neighbourhood Habitats which could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.	CSR work in the field of Health, Drinking water, Solar light, educational support, repairing of village roads, Environment protection & employment etc is being implemented regularly taken up through Tata Steel Foundation. The details furnished under Item no: 11 as above.
29.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The labourers working in this Mine belong to near by villages only who are staying in their own houses. The facilities e.g. provision of drinking water, supply of fire wood, provision of free medical treatment with Ambulance facility etc are being provided to them regularly.
30.	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs.	Noise level being monitored regularly and it is within permissible limit. The noise monitoring report is furnished in the Annexure.
31.	Industrial waste water (workshop and waste water from the mine) should 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. Oil and grease trap should be installed before discharge of workshop effluents.	Mining operation commenced during Oct 2021 & the mine is in its initial development phase. Thus, at present no ETP is installed at site. However, provision of installation of the same is planned & under progress.
32.	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and	Personnel working in dusty areas are provided with proper respiratory masks, eyewear protection, hand gloves, ear muffs, leg guard & other PPEs. Proper training and information on safety and health aspects

	information on safety and health aspects.	at Group VT Centre of M/S Tata Steel Ltd, Joda to the employees as stipulated.																								
33.	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	<p>An Environmental Management Cell consisting of following qualified persons have been formed under the control of Head of the organisation.</p> <table border="1"> <thead> <tr> <th>NAME</th> <th>QUALIFICATION</th> </tr> </thead> <tbody> <tr> <td>S. K. Mishra</td> <td>M.Sc. (Geology), P. G. Diploma in Ecology & Env't.</td> </tr> <tr> <td>K. Raja Reddy</td> <td>B.Tech(Mining), FCC</td> </tr> <tr> <td>J. K. Das</td> <td>M.Sc. (Geology)</td> </tr> <tr> <td>Tapaswi Apat</td> <td>B.Tech(Civil)</td> </tr> <tr> <td>S. K. Ghadai</td> <td>Mines Surveyor</td> </tr> </tbody> </table>	NAME	QUALIFICATION	S. K. Mishra	M.Sc. (Geology), P. G. Diploma in Ecology & Env't.	K. Raja Reddy	B.Tech(Mining), FCC	J. K. Das	M.Sc. (Geology)	Tapaswi Apat	B.Tech(Civil)	S. K. Ghadai	Mines Surveyor												
NAME	QUALIFICATION																									
S. K. Mishra	M.Sc. (Geology), P. G. Diploma in Ecology & Env't.																									
K. Raja Reddy	B.Tech(Mining), FCC																									
J. K. Das	M.Sc. (Geology)																									
Tapaswi Apat	B.Tech(Civil)																									
S. K. Ghadai	Mines Surveyor																									
34.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office.	<p>Mining operation started in October 2021 & as per cabinet committee decision the company has been divested through DIPAM, Union Ministry of Finance.</p> <p>The fund earmarked for Environmental Protection measures will be kept in a separate account which will not be diverted for any other purpose. The year wise expenditure will be reported to the Regional Office as stipulated. The expenditure incurred during last six months period (April -Sept-2023) towards environment protection is as under:</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Item</th> <th>Amount Spent (Rs.)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Afforestation</td> <td>1362383</td> </tr> <tr> <td>2.</td> <td>Safety Zone fencing</td> <td>2766276</td> </tr> <tr> <td>3.</td> <td>Toe wall making</td> <td>3467244</td> </tr> <tr> <td>4.</td> <td>Env't. Monitoring</td> <td>12670541</td> </tr> <tr> <td>5.</td> <td>Water Sprinkling</td> <td>2845684</td> </tr> <tr> <td>6.</td> <td>Health care</td> <td>2721180</td> </tr> <tr> <td colspan="2">Total</td> <td>25833308</td> </tr> </tbody> </table>	Sl. No	Item	Amount Spent (Rs.)	1.	Afforestation	1362383	2.	Safety Zone fencing	2766276	3.	Toe wall making	3467244	4.	Env't. Monitoring	12670541	5.	Water Sprinkling	2845684	6.	Health care	2721180	Total		25833308
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35.	The project authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Commencement of mining operation was intimated to the Member Secretary, OSPCB, Bhubaneswar vide our letter NINL/KJR/2020/09 dated 01.02.2020.																								
36.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.	Being Complied.																								

37.	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.	We are committed to extend full co operation to the officer(s) of regional Office during monitoring compliance of stipulated conditions.
38.	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	Complied as stipulated
39.	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.	Noted
40.	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office.	Complied as stipulated.