

Ref: AMIPL/534/2024-25

Date: 22.11.2024

To,
Deputy Director General of Forests (C),
Ministry of Env., Forest and Climate Change,
Integrated Regional Office,
A/3, Chandrasekharpur,
Bhubaneswar – 751023

Sub: Half Yearly Environment Clearance compliance report for the period April-2024 to September-2024 granted in respect of Thakurani Iron Ore Mines of M/s ArcelorMittal India Private Limited in Thakurani RF, village-Dalki/Thakurani under Barbil Tahsil, Dist-Keonjhar, Odisha,

Dear Sir,

We are submitting herewith the Half Yearly Compliance Report of the Conditions as per Environment Clearance granted vide letter No. J-11015/902/2007-IA II(M), dated 03rd February 2012 for production of 5.5 million Ton. Iron ore granted in favour of M/s ArcelorMittal India Private Limited (AMIPL) for the period April -2024 to September 2024 in respect of Thakurani Iron Ore Mine in Thakurani RF, village-Dalki/Thakurani under Barbil Tahsil, Dist-Keonjhar, Odisha

This is for your kind information and record please.

Thanking you,

Yours faithfully,
For and on behalf of **ArcelorMittal India Private Limited**



Name: Indrakant Saha
Designation: Mines Manager

Encl: As above

Copy to: Member Secretary, State Pollution Control Board, Unit 8, Bhubaneswar, Odisha.

Half-Yearly EC Compliance Report

Of

**Thakurani Iron Ore Mine
M/s ArcelorMittal India Private Limited
(AMIPL)**

At

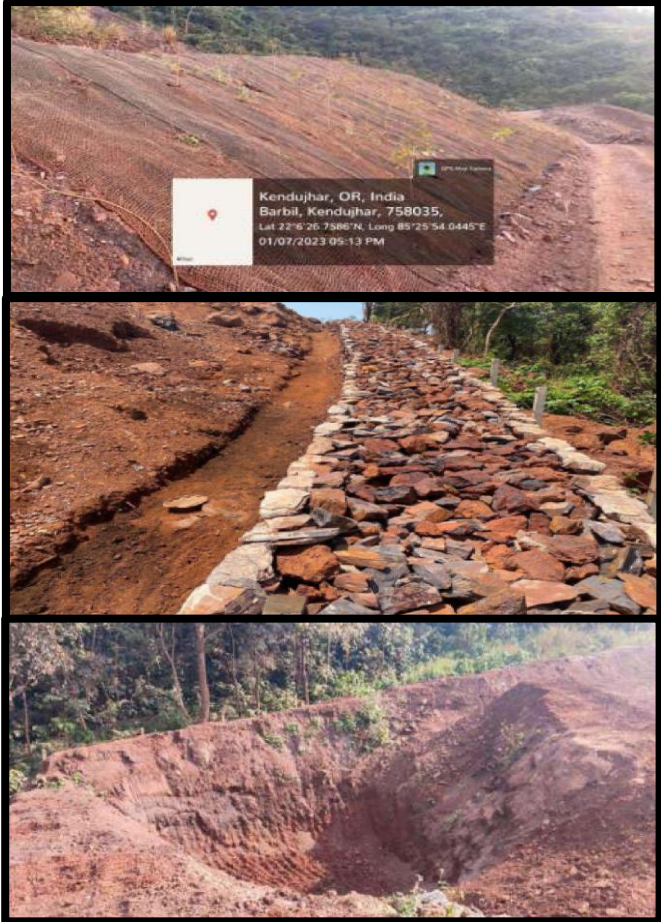

**village- Dalki/Thakurani under Barbil
Tahsil, Dist-Keonjhar, Odisha.**


For the period of


April 2024 to September 2024



Sl.No.	Conditions	Compliance for submission
A. Specific Conditions		
1	No mining shall be carried out in the forestland involved in the project without obtaining requisite prior forestry clearance under the Forest (Conservation) Act, 1980. The environmental clearance is subject to grant of forestry clearance.	Forest Clearance granted vide letter no. F. No. 8- 154/97-FC (VOL-II), 19th July 2005 granted to erstwhile lessee M/s Kaypee Enterprises and vested with new lessee M/s ArcelorMittal India Private Limited (AMIPL) by the Govt. of Odisha vide Vesting order No. 1320/SM dated 15.02.2022 as per the Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession (MoAHCEM) Rules, 2016 in respect of Thakurani Iron Ore Mine over 146.726 ha. out of total mining lease area of 228.744 Ha. as per DGPS) in Thakurani RF, Dalki Village, Barbil Tahsil, Dist- Keonjhar, Odisha. The mining operation is confined within that approved land.
2	The project proponent shall obtain Consent to Establish and Consent to Operate from the State Pollution Control Board, Orissa and effectively implement all the conditions stipulated therein.	The Consent to Operate also has been obtained from OSPCCB vide order No. 3947/IND-I-CON-2168, dated. 20.03.2024 for the production of 5.5 MTPA of Iron ore, which is valid up to 31.03.2025. All the conditions stipulated in the consent to operate are being adhered and implemented.
3	Prior environmental clearance from the Standing Committee of the National Board for Wildlife shall be obtained due to location of the mine in the buffer zone of the Singhbhum Elephant Reserve, before starting any activity relating to the project at site. All the conditions stipulated by the Standing Committee shall be effectively implemented in the project. It shall be noted that this clearance does not necessarily implies that wildlife clearance shall be granted to the project and that your proposal for wildlife clearance shall be considered by the competent authorities on its merit and decision taken. The investment made in the project, if any based on environmental clearance granted to the project, in anticipation of the clearance from wildlife clearance shall be entirely at the cost and risk of the project proponent and Ministry of Environment and Forests shall not be responsible in this regard in any manner.	The mines is operating under a vesting order dated 29th May 2020 issued as per the MoAHCEM Rule 2016 for two years with the continuation of approvals and clearances under the same terms and conditions of the previous lessee for the said period. The vesting order was subsequently extended till life of mine, vide vesting order no. 1320/SM, dtd. 15.02.2022. As per the PCCF(WL) communication vide his letter no-5217, dtd. 08.07.2016, it has been stated that the Mining Project is located in the buffer zone of Singhbhum Elephant Reserve and does not require to be referred to the Standing Committee of the National Board for Wildlife and justified the deletion of the Specific Condition no. (III) of the EC granted. Regional MoEF&CC, Eastern Region, Bhubaneswar had furnished certified compliance of Environment Clearance conditions vide their letter no. 58 dated 27.02.2019 wherein it is noted that given the MoEF&CC letter no. 6-10/2011WL dated 19.12.2021 and the approved Site-Specific Wildlife Conservation plan the previous lessee had already deposited ₹143 Lakhs towards the implementation cost in the CAMPA fund.
4	Environmental clearance is subject to final order of the Hon`ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004, as may be applicable to this project.	Agreed
5	The Company shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter-alia provide for (i) Standard operating process / process to bring into focus any infringement / deviation violation of the environmental or forest norms/ conditions, (ii) Hierarchical system or Administrative order of the company to deal with the environmental issues and	Corporate environmental policy has been implemented, considering the manual designed based on the ISO: 14001 standard guidelines, which describe the standard operating procedures/ processes to counter the deviations/ violations relating to environmental norms/conditions and reinforce the same with a hierarchical system of check and balance. The corporate environmental responsibility work includes the infrastructure development, Health, Education, and sanitation in nearby villages.


	<p>for ensuring compliance with the EC conditions and</p> <p>(iii) System of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders.</p>	
6	<p>The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.</p>	<p>The mining activity is not intersecting the ground water table of the area. There are two pits namely Quarry-1 & Quarry-2 are under operations. The ground water table in the area is lying at 530 m above MSL. The ultimate working depth of the mines will be 600 m above MSL Therefore, the mining operation will not intersect the ground water table.</p>
7	<p>The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate safeguard measures shall be taken for protection of the first order streams and the seasonal nallahs originating from the mining lease area</p>	<p>There is no presence of any perennial watercourse like river/stream etc. in the lease area. However, two numbers of Settling Pits have been constructed as protective measures for control sediment flow into the nearby water bodies. Further provisions of check weirs, retaining walls etc. are there at the Strategic locations for allowing the natural flow.</p>
8	<p>The topsoil, 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.</p>	<p>The topsoil generated is utilized for plantation and the rest is stored at the earmarked location provided with necessary precautions like proper sloping, provisions of retaining wall, and garland drains. The same shall be used for land reclamation and raising of plantations.</p>
9	<p>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 and their phase-wise stabilization shall be carried out. Back filling shall commence from the 11th year onwards. There shall be four external over burden dumps. The maximum projected height of the dumps shall not exceed 45m in three terraces of 15m each and the overall slope of the dumps shall be maintained to 28°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.</p>	<p>Overburden is being stacked at earmarked site as approved in the Mining Plan. At present there is only one no. of active OB/Waste dump in the mine. There are 03 nos. of external dump within the mining lease area which are temporary in nature and will be rehandled.</p> <p>The Mining Plan has been revised and approved on 17.08.2024. We obtained the backfilling approval for better stability of the quarry benches and currently backfilling is going on in the approved area. Applications have been taken up on the dump slopes to prevent the soil erosion Coir mat applications has been adopted for better stabilization of soil and dump materials. Garland drains and Retaining wall are provided all along the toe of the dumps to prevent the wash-off. Settling pits have been constructed at the bottom of the dump areas to arrest / control flow of silts during monsoon. Photograph of coir-mat with dump plantation, retaining wall along with garland drains & settling pit are attached</p>

		<p>respectively.</p> 
10	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, soil, OB and mineral dumps to prevent run off of water and flow of sediments directly into water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de-silted particularly after the monsoon and maintained properly. Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed around the mine pit, soil, OB and mineral dumps to prevent run off of water and flow of sediments directly into the 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>There are 2 numbers of sumps/settling pits have been constructed at the bottom of the dump, stack- yard areas etc. to arrest / control flow of silts during rain. The sumps/settling ponds are de-silted regularly after monsoon. There is no perennial water source within the mining lease area. Surface runoff are properly channelized, and allowed to settle in the settling pits constructed at lower level.</p> <p>The sump have been constructed with adequate capacity with safety margin so that, most of the surface run-off water is percolated down in the settling ponds during the rainy season and rest quantity is passed through the proper channel i.e., check dam, check weir etc. to the mines pit areas. In the entire area, wherever possibility of wash off or flow of sediments etc. is anticipated, the retaining wall, garland drain, and check dam have been provided at the strategic points. Photograph retaining wall along with garland drains attached below.</p> <p>Retaining Wall Photographs</p> 
11	<p>Dimension of the retaining wall at the toe of the over burden dumps and the</p>	<p>The retaining walls has been constructed followed by garland drain at the toe of the dumps and gabion box of have been</p>

	<p>OB benches within the mine to check run-off and siltation shall be based on the rainfall data.</p>	<p>provided at the toe of the overburden dump.</p>
<p>12</p>	<p>Plantation shall be raised in an area of 149.518 ha including a 7.5 m wide green belt in the safety zone around the mining lease, over burden dumps, mine benches, backfilled area, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. 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 plantation requirement to cover the area of 179.99 ha will be at the end of mine life after exhaustion of mineral deposit. However, Plantation is carried over an area of 5.515 ha of safety zone, waste dump gap plantation within the lease area and social forestry outside the lease area i.e. avenue plantation and block plantation. In Total 29150 nos. of plantation has been carried out inside and outside the mining lease. This year we have planted 2200 trees in Waste dump-5 and distributed 1000 trees in nearby villages.</p> <p>Plantation photograph</p> 
<p>13</p>	<p>Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard in this regard.</p>	<p>Fixed type water sprinkling system has been installed, covering 0.7 kms along the haul road. Apart from that, water sprinkling is done regularly with the help of 04 Nos. of water tankers with capacity of 12KL (2No.), 20 KL (1 no.) & 8KL (1 no.) at the dust generating points within the lease area and transporting road to reduce the fugitive dust emissions. The monitoring of AAQ is being carried out in both core and buffer zone of the ML area on regular basis. There are 2 nos of monitoring stations in core zone i.e., one at Mines Office and another one at Mines Entrance gate area and 4 nos. of monitoring stations in the buffer zone such as Thakurani village, Goldaru Village, Barbil & Seranda village. Monitoring of AAQ is carried as per the NAAQ standards and CPCB guidelines. The monitoring report reveals that the Concentration of PM10 is ranging from 27.5 to 81.8 $\mu\text{g}/\text{m}^3$, Concentration of PM2.5 is ranging from 12.9 to 38.2 $\mu\text{g}/\text{m}^3$, The concentration of SO2 ranges from 3.4 to 9.1 $\mu\text{g}/\text{m}^3$, the Concentration of NOx ranges from 8.6 to 25.4 $\mu\text{g}/\text{m}^3$ and the concentration of CO ranges from 0.138 to 0.318 mg/m^3.</p> <p>In addition to this, 02 nos. of Continuous Ambient Air Quality monitoring Station (CAAQMS) have been installed, one in core zone & one in buffer zone.</p> <p>Photograph of fixed sprinkler & wheel washing system</p> 

		
14	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	NOC for using the ground water from the CGWA obtained by the previous lessee vide their letter No.21-4(177)/SER/CGWA/2009-482Dt. 28.03.2019 is vested with new lessee AMIPL vide Vesting order No. 4183/SM/III(A)SM-03/2020 dated 29th may 2020 as per the MoAHCEM Rules 2016. We have implemented roof top rain water harvesting cum ground recharge structure at camp site.
15	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 installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	Groundwater level and quality are monitored four times a year, i.e., pre-monsoon, monsoon, post-monsoon, and winter, covering a total of seven locations, by engaging an NABL accredited laboratory. The groundwater level monitoring at all the stations is carried out by means of a water level meter. The data is submitted to the MoEF&CC and CGWB on a yearly basis.
16	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water, if any required for the project.	At present there is no consumption of surface water. However, necessary permission will be obtained before drawl of surface water.
17	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	The entire lease area falls within the Reserve forest land and construction of effective rain water harvesting structure within the lease area i.e. in forest land is not feasible at present. However, we have constructed a rain water harvesting pond outside the lease area which is permanent in nature and two numbers of sumps/settling pit have been constructed at strategic points within the lease area as per the Rain Water harvesting cum surface water management plan. The water in these pits are allowed for percolation to recharge the ground water table. The sediments particles of the settling ponds are de-silted after the monsoon. The rain water harvesting pond is also de-silted time to time. Apart from that we have implemented Roof Top Rain Water Harvesting cum ground recharge structure at camp site.
18	Appropriate mitigative measures shall	The Karo River is situated at a distance of about 8 kms from

	be taken to prevent pollution of the Karo River in consultation with the State Pollution Control Board.	our mining lease area. Site specific surface run off management measures like; dump slope stabilization, retaining wall, garland drain, sumps and series of check-dams/Check wires etc. have been constructed to prevent the flow of silts through watercourse to the water bodies.
19	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	The vehicles are maintained properly and the monitoring is done regularly for the emission of the vehicles to ascertain whether the vehicles meet the pollution norms. The tests are being conducted on regular basis. The vehicles which are carrying the loaded materials are being fully covered with tarpaulins. No overloading is allowed to the vehicles. Photographs of Transport Vehicles with Tarpaulin Cover 
20	No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Blasting in the mines is done only in daytime which is fixed at 12.30 pm to 1.30 pm. Controlled blasting technique is in practice by using the Nonel technology and following the recommendation of the CIMFR, Dhanbad. Ground vibrations are being monitored by using the mini-mate instrument and the results are well within the norms.
21	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to the Ministry of Environment and Forests and its Regional Office located at Bhubaneswar.	Digital processing of the entire lease area using remote sensing technique for monitoring land use pattern of the entire lease area will be adhered once in three years and submitted accordingly. Under Rule-34A of MCDR-2017, drone survey is being conducted every year and the digital processing data is being submitted to IBM.
22	Drills shall either be operated with dust extractors or equipped with water injection system.	A drilling machine with an inbuilt water injecting system is being utilized to minimize dust. A photograph of drilling machine equipped with water injection system. 
23	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.	Fixed type water sprinkling system has been installed along the haul road over a length of 0.7 kms. The crusher and screen plants are provided with dry fog system and conveyor belts are covered with shed. Apart from that, we have taken effective steps for dust suppression at mine face/bench, mineral & waste handling and haul road areas, water sprinkling is done regularly with the help of 04 Nos. of water tankers 12KL (2No.), 20 KL (1 no.) & 8 KL (1 no.) to reduce

		the dust emission
24	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.	<p>Sewage Treatment Plant (STP) of capacity 30 KLD was commissioned to treat the domestic wastewater generated from the kitchen, toilet, etc. in both mines and the Colony area.</p> <p>Site-specific ETP (Oil & Grease Separation Unit) provided at Workshop Service center within the mines area to treat the wastewater generated from the machinery engaged in mining operations.</p> <p>The Concentration of oil & grease ranges from 0.95 to 1.5 mg/l, concentration of COD ranges from 14 to 20 mg/l, concentration of pH ranges from 7.23 to 8.14 and concentration of TSS ranges from 18 to 34 mg/l.</p> <p>In addition to this one STP was commissioned within the mines lease area of capacity.</p> <p>Photograph of STP & ETP</p> 
25	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly	Initial & Periodical Medical Examination of the workers engaged in the project is being undertaken. Different examinations & tests including PFT, X-Ray, and lung spirometry, etc. have been carried out for the employees during the reporting period, 82 numbers of employees have undergone Initial Medical Examination and 69 nos. of employees have undergone Periodical Medical Examination
26	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely elephant, sloth bear etc. spotted in the study area. All the safeguard measures brought out in the Wildlife Conservation Plan prepared specific to this project site shall be effectively implemented in consultation with the State Forest and Wildlife Department. A copy of the Conservation plan shall be submitted to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar.	<p>Site Specific Wildlife Conservation Plan for Thakurani Iron Ore Mine has been revised and approved by the PCCF (WL) and Chief Wildlife Warden, Odisha vide letter No.4685 Dated 25.04.2024. All the recommendations as per this conservation plan is being implemented in core zone in consultation with Divisional Forest Officer, Keonjhar and amount has been deposited towards implementation in buffer zone by Forest Department.</p> <p>Awareness camps have been organized prevention of Forest Fire and forest conservation. In addition to this, World Environment Day, Van Mahotsav, and Wildlife Week are being celebrated during the year to create awareness in the society about environment.</p>
27	The entire mining lease area shall be fenced by erecting solar powered electric fencing all around it. The fencing so erected shall be maintained properly and the cost towards erection and maintenance of the solar powered electric fencing shall be borne by the project proponent out of the project cost.	Repair & Maintenance of Fencing has been taken up to protect the entry of wildlife inside the working area.
28	No transportation of ore outside the mine lease area shall be carried out after the sunset.	As per the instruction of the Local District Collector cum District Magistrate and the Mining Department of the District, the vehicles movement is restricted during 8.00 a.m. To 8.00 p.m. and so the transporting is being taken up according to the instruction of the local Government authorities.

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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The staff camp has been constructed out-side the lease area for which required facilities with safe drinking water is supplied and soak pit has been constructed for treatment of the domestic waste water generated from the Kitchen, toilet etc. However for the temporary site office at mines, mobile toilets and mobile STP -Ultra Filtration Unit,safe drinking water is being provided.
30	The critical parameters such as RSPM (Particulate matter with size less than 10pm i.e. PM10) and NOx 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 and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	All these critical parameters are being monitored periodically at the mines site as well as nearest habitation and the analysis report found is within the permissible limit. The report is being sent to the MOEF regularly and also uploaded on the company website along with displayed in an electronic display board at the main gate entrance of the project site of the company for public domain as well as in the company's website. Photograph of Display Board
31	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	The mining lease has been granted for 50 years valid till 26th June 2070. Final Mine Closure Plan along with details of Corpus Fund will be submitted to MoEF&CC in advance of final mine closure for approval.
B. General Conditions		
1	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	There is no change in mining technology. The mining operation is adhered to the mining plan/schemes approved by IBM. The Mining method is fully mechanized, having heavy earth moving machineries like shovels, dumper combinations and screening & crushing of iron ore.
2	No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.	There is no change in calendar plan of production of ore and waste. The production is being limited to the permissible approved quantity as per the approved mining plan, Environment Clearance and Consent to Operate. The total production of ROM for the period April 24 to September 24 is 2510626 MT out of the approved limit of 5.5 MTPA. Total excavation of waste during the above period is 1012810 MT
3	At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM10) and NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the	The monitoring of AAQ is being carried out in the core as well as buffer zone of the ML area, There are 2 no. of monitoring stations in core zone i.e. Mines office & Mines Gate and there are 4 no. of monitoring stations in the buffer zone such as Thakurani village, Goldaru Village, Barbil & Seranda village. Monitoring of AAQ is carried as per the NAAQs notifications made by the CPCB.



	State Pollution Control Board.	
4	Data on ambient air quality [(RSPM(Particulate matter with size less than 10micron i.e., PM10) and NOx] should be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board / Central Pollution Control Board once in six months.	The monitoring data of the ambient air quality is being submitted to Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board / Central Pollution Control Board.
5	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	We have installed the fixed water sprinkling system over a length of 0.7 km along the mineral dispatch road for effective dust suppression. Apart from that, the water sprinkling is done regularly with the help of 04 Nos. of water tankers with capacity of 20KL (2No.), 20KL (1 no.) & 8 KL (1 no.). A wheel washing system is also installed.
6	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.	The machines engaged in the mines are being maintained properly and regularly to minimize the noise pollution. Controlled blasting is taken up in the mines. Workers engaged in Operations are provided with earplugs / muffs, besides this acoustic enclosure for all machine operating cabins are provided. It is being monitored by Noise Level Meter; the results are well within the norms.
7	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.	Site specific ETP - Oil & Grease separation Unit cum Workshop Service centre within mines is constructed for the treatment of wastewater generated during the mining operation. Oil and grease trap provision with sedimentation pit is also made for the treatment of workshop effluent water. The Concentration of oil & grease ranges from 0.95 to 1.5 mg/l, concentration of COD ranges from 14 to 20 mg/l, concentration of pH ranges from 7.23 to 8.14 and concentration of TSS ranges from 18 to 34 mg/l.
8	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Workers engaged in dusty areas are provided with nose mask/dust mask. Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken. Different examinations & tests include PFT, X-Ray, and lung spirometry etc. are being carried for the employees where 82 numbers of employees has undergone Initial Medical Examination, and 69 nos. of employees has undergone Periodical Medical Examination.
9	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.	We have established an Environmental Cell headed by the Manager Mines to look after the implementation of the various pollution control measures and other Environment Management System requirements
10	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 located at Bhubaneswar.	The fund earmarked for environmental protection is being utilized for the said purpose only.
11	The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial	After execution of the mining lease on 27th June 2020, mining operation commenced on 14.07.2020. The mining lease is valid till 26th June 2070. Presently the Progressive Mines

	<p>closures and final & approval of the project by the concerned authorities and the date of start of land development work.</p>	<p>closure plan has been approved by IBM and the Final closure plan will be prepared towards the end of life of mines and be informed to the Ministry accordingly.</p>
12	<p>The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data I information / monitoring reports</p>	<p>We will extend all our full cooperation during any such inspections by the Authority.</p>
13	<p>The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.</p>	<p>We will adhere the same conditions.</p>
14	<p>A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.</p>	<p>It has been complied with intimating the letters to local Gram Panchayat, Municipality, DDM Office, Zila Parishad, Divisional Forest Officer etc. and a copy of environmental clearance letter is also made available in the company's website.</p>
15	<p>The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.</p>	<p>This has been compiled from SPCB, Bhubaneswar.</p>
16	<p>The environmental statement for each financial year ending 31' March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental</p>	<p>We will adhere the same condition.</p>

	clearance conditions and shall also be sent to the respective Regional Office of the Ministry of Environment and Forests, Bhubaneswar by e-mail.	
17	The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and 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 and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar	Environment Clearance granted vide letter no. J-11015/902/2007-IA II(M), Dated 03rd February 2012 for production of 5.5 million T Iron ore and the EC has been transferred to ArcelorMittal India Private Limited (AMIPL) vide EC Identification No- EC21A0010R166226 dated 13.12.2021. Complied as per the conditions.

Date: 21.11.2024

Place: Thakurani

Mr. Indrakant Saha
Mines Manager