

Ref. No.: SML/KIOM/ Ec_Com / 326 /24-25

Date: 14.12.2024

To,
The Member Secretary,
State Environment Impact Assessment Authority, Odisha
(Ministry of Environment, Forests & Climate Change)
Qr. No-5RF-2/1, Unit-IX, Bhubaneswar -751 022

Subject : Submission of Environmental Clearance compliances status of the stipulated conditions for iron production of 1.8 MTPA in respect of Khandbandh Iron Ore Mines of Sree Metaliks Ltd. for the period April 2024 to September 2024-Reg.

Reference: SEIAA file no. 462225/08-MIN/02-2024 & EC Identification No. EC24B0000OR5180305N Dt. 18.07.2024.

Dear Sir,

With reference to the above cited subject and gazette notification, we are submitting herewith the compliance report for 1.80 Million TPA Iron ore production with comprehensive data analysis reports (supporting photographs and monitoring reports) April 2024 to September 2024-in respect of Khandbandh Iron Ore Mines of Sree Metaliks Ltd..

Thanking you.

Yours faithfully,
For SREE METALIKS LIMITED



S. S. Kar 14/12/24.

SR. VICE PRESIDENT (Admin & Commercial)
Khandbandh Iron Ore Mines

Enclosed : As above & Compliance Copy with detailed analysis report and supporting photographs and monitoring data.

Copy to :

(1) The Director (S)

Eastern Regional Office, Ministry of Environment & Forest, Government of India,
A-3 Chandrasekharapur, Bhubaneswar - 751 023

(2) The Chairman,

Sate Pollution Control Board, Orissa A/118, Nilakantha nagar, Unit - VIII,
Bhubaneswar - 751 012

(3) The Member Secretary, Central Ground Water Authority, A2, W3 Curzan Road
Barracks, K.G. Marg, New Delhi - 110 001.

CIN : U26939WB1995PLC075633

SML HOUSE, MAIN ROAD, BARBIL - 758035, KEONJHAR, ORISSA, INDIA

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NAME OF THE PROJECT:

**Khandbandh Iron Ore Mines (35.774 Ha)
of Sree Metaliks Ltd**

CLEARANCE LETTER NO. & DATE:

**SEIAA LETTER NO. 462225/08-MIN/02-2024
EC IDENTIFICATION No. EC24B0000OR5180305N
DATED 18.07.2024.
PRODUCTION CAPACITY: 1.80 MTPA**

PERIOD OF COMPLIANCE REPORT:

APRIL, 2024 TO SEPTEMBER, 2024

Compliance reports of conditions laid down vide letter no. 61542/564-MINB1/02 2022 dated 30.06.2022 of SEIAA in respect of Khandbandh Iron Ore Mines of Sree Metaliks Ltd.

SL.NO	A. STIPULATED CONDITONS	STATUS
(i)	This Environmental Clearance (EC) is granted for 20% (0.3 MTPA) increase in production capacity of iron ore (i.e., from 1.50 MTPA) under 7(ii) (a) of EIA notification 2006 as per MoEF & CC, Govt. of India OM dated 11.04.2022.	We are abiding by the said condition. Supporting copy of the Environmental Clearance (EC) letter is attached as Annexure-1 .
(ii)	The project proponent needs to preserve or utilize the ore and fine's containing Fe between 35-45%, following IBM guidelines.	We are abiding by the said condition. We are preserving the ore and fine's containing Fe between 35-45% in earmarked location as per IBM guidelines for future use.
(iii)	The project proponent shall maintain adequate greenbelt in the lease area.	We have already carried out Safety zone plantation over 7.5 meter all along the lease boundary with saplings of 1180 numbers. Besides that, we are doing re-plantation in gap areas and following the Forest Dept. guidelines for the same. The supporting photographs of the same are given below as Photo#1 .
(iv)	OB dump sites shall be managed properly as proposed.	We are abiding by the said condition. As proposed the generated OB is being used for back filled in the phased manner as per the approved Mining Plan by IBM.
(v)	The additional fines generated due to proposed enhancement shall be managed properly.	The additional fines generated due to proposed enhancement shall be managed properly as per the proposal given in approved Mining Plan.
(vi)	Proper Air Pollution Control measures shall be provided to control dust emission and local dust generation.	Proper Air Pollution Control measures are being practiced in mining operation such as • DP 1100 Sanvick drilling machines is being used for drilling Operation. Equipped with dust extractor and wet drilling. • All mineral processing plants are operated with high pressure, dry fog system. It will suppress the source dust from source level. • Proper maintenance is carrying for HEMM and DG sets to minimize the source of emission from engine site at source level. • Mine dumps and other empty land planted to avoid the generation of dust from wind flow. • Wheel washing system provided at mines entrance and exit gate. The supporting photographs of the same are given below as Photo#2,3,4.

Compliance reports of conditions laid down vide letter no. 61542/564-MINB1/02 2022 dated 30.06.2022 of SEIAA in respect of Khandbandh Iron Ore Mines of Sree Metaliks Ltd.

(vii)	The project shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the provision of the MMDR Act,1957 and Rules/Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.	We are abiding by the said condition. The Project is in operation since 2018; Mining Plan with financial assurance plan has been approved by IBM. Further, A copy of approved final mine closer plan along with a detailed corpus fund will be submitted to the Ministry of Environment & Forest, within 2 months of the approval of the same from the competent authority, to the concerned Regional Office of the ministry of Environment, Forest and Climate Change for record and verification.
(viii)	Traffic management shall be done as per recommendation of Traffic Management Study Report duly vetted by institute of repute.	Traffic management is being done as per the recommendation of Traffic Management Study Report prepared by CRRI. Report is attached as Annexure-2
(ix)	As a part of six-monthly compliance, the PP shall submit the status of Tailing Pond and its annual make-up to ascertain its capacity to take care of expansion in production including mineralogical & chemical analysis of excavated ore. Dump materials and rejects. Also, actual layout after expansion may be submitted as a part of six-monthly compliance to the SEIAA, Odisha and Regional Office, MoEF&CC, Govt. of India, Bhubaneswar.	At present the condition is not applicable to our mining operation. Once the wet screen plant will be installed, then we will submit the status of Tailing Pond and its annual make-up to ascertain its capacity to take care of expansion in production including mineralogical & chemical analysis of excavated ore.
(x)	Adequate measures shall be adopted for management of noise, vibration and fly rocks.	We are practicing following measures for management of noise, vibration and fly rocks at our mines such as : - 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 reveals very well within norms. - Drilling and control blasting is being carried out as per the recommendation of CIMFR,

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		Dhanbad to manage vibration and fly rocks during blasting event. The supporting photographs of the same are given below as Photo#5,6.
(xi)	Bench and dump slopes are to be designed and maintained based on scientific studies as stipulated by DGMS, so that their failure is avoided.	The maximum heights of the existing benches are being maintained within the height of 6 meters and the dump slopes are being maintained within 30 degree as per the approved Mining plan to avoid its failure.
(xii)	The PP shall ensure proper surface runoff management and adopt adequate water conservation measures to augment the water resources of the area.	Under the scope of surface runoff management we have provided the adequate size, shape of check dams, check weir are followed by proper settling ponds at the strategic points of mines. Settling pits are connected with the garland drains and de-siltation of the settling pits is being carried out regular intervals. The supporting photographs of the same are given below as Photo#7, 8&9. The quality of discharged/run-off water during monsoon is being monitored regularly (COD, TDS, DO, PH and Total Suspended Solids (TSS)] the report of surface runoff is attached herewith as Annexure – 3.
(xiii)	The PP shall keep adequate space for storing and managing dump and tailing as brought out in the revised EIA report. All sub grades shall be staked for future use based on their potential (Fe content).	We are abiding by the said condition.
(xiv)	The PP shall comply all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.	We are abiding by the said condition. The issued which rose during the public hearing meeting like road development, Employment, Supply of drinking water, etc. are being fulfilled by the project proponent. The Details of public hearing compliance addressed during the hearing and the status of the same are attached herewith as Annexure-04 & The supporting photographs of the same are given below as Photo#10.
(xv)	The EMP shall be implemented in a time bound manner as per budget allocation. The adoption of mitigation measures	Action plan for a time bound manner implementation of EMP and environmental conditions along with responsibility matrix of the company has

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	and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office as a part of six-monthly compliance report.	already been prepared and the fund earmarked for environmental protection is being utilized for the said purpose only. The details of the same are mentioned in table no. 01 . The adoption of mitigation measures and monitoring of the same as proposed in the EMP is being done under the supervision of a separate Environmental management cell with suitable qualified personnel under the control of a Senior Executive, who is directly reporting to the Head of the Organization Cell of our mines. The detail of the same wise attached herewith as Annexure-05 .
(xvi)	The proponent shall comply all the specific conditions as recommended by CSIR-NEERI on carrying capacity study (as applicable) & other specific conditions in time bound manner as applicable for the project.	We have complied all the specific conditions as recommended by CSIR-NEERI on carrying capacity study.
B.	Standard Conditions-I-Statutory compliance :	
(i)	This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable	We are abiding by the said condition and order issued by the competent authority with due compliance from time to time.
(ii)	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2 nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations as may be applicable.	We are abiding by the said condition of Hon'ble Supreme Court dated the 2 nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors .
(iii)	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of-Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2 nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus	We are abiding by the said condition.

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	Union of India & Ors.	
(iv)	This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project,	The project is not coming within 10 kms of any Eco Sensitive Zone. The NOC from NBWL is not applicable for this project.
(v)	This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act. 1980, as applicable to the project.	The project has obtained the Forest Clearance over the entire forest area involved in the project i.e. 35.774 Ha from the MOEFCC, GOI under the FC Act, 1980. Further, FC under 2 (ii) over 30.980 Ha obtained vide letter no. 5-ORC097/2010-BHU dated 16.12.2016. Copy enclosed as Annexure -6.
(vi)	Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board.	We have obtained the consent to establish from the SPCB, Odisha vide letter no. 13643/IND-II-NOC-7207 Dated 28.08.2024 and Consent to Operate from the SPCB, Odisha vide Letter No.18039/IND-I-CON-6573 dated. 07.11.2024 & ORDER No.2849 and effectively implementing the conditions stipulated therein. Copy of the same is attached herewith as Annexure-07.
(vii)	The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.	We are abiding by the said condition and order issued by the competent authority with due compliance from time to time.
(viii)	The Project Proponent shall obtain consents from all the concerned land owners. before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made thereunder in respect of lands which are not owned by it.	The granted lease area is inside the reserve forest. There is no such private land involved in this project. Lessee has taken forest clearance for working inside the forest area. Mining Operation is being carried out on the surface right areas only and as per the approved land use plan approved in Mining Plan by IBM.
(ix)	The Project Proponent shall follow the mitigation measures provided in	The granted lease area is inside the reserve forest. The mining Lease area is not part of any habitational area or not surrounded by

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	MoEF&CC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29 th October, 2014, titled "Impact of mining activities on Habitations-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".	any habitational area.
(x)	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of groundwater for the project.	The project has already obtained the necessary clearances from the competent authority for the drawl of the requisite quantity of Surface water i.e. 150 KLD and groundwater i.e. 9.8 KLD. The copy of surface water permission and ground water NOC is enclosed as Annexure - 08 & 08A
(xi)	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.	The Project Proponent submitted the copies of the environmental clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government.
(xii)	State Pollution Control Board shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tahasildar's Office for 30 days.	It has been complied.
(xiii)	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional Office for compliance and record.	The Project Proponent advertised in the two local newspapers, i.e., Samaj-Odia Daily (vernacular language) and The Odisha Post - English daily within stipulated time period. A copy of the same has been submitted to the Regional Office of this Ministry located at Bhubaneswar. The copy of the same is attached as Annexure-9 .

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(xiv)	The Project Proponent shall inform the MoEF&CC/SEIAA, Odisha for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification. 2006 as amended from time to time.	We are abiding by the said condition.
(I)	<u>Air quality monitoring and preservation</u>	
(i)	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM ₁₀ , PM _{2.5} , NO _x , CO and SO ₂ etc. as per the methodology mentioned in NAAQS Notification No. B-290 16/20/90/PC/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main gate of the mine site.	The project has already established online Ambient Air Quality Station considering the wind direction and climatological data of that area. Critical parameters, relevant for mining operations, of air pollution viz. PM ₁₀ , PM _{2.5} , NO ₂ , CO and SO ₂ etc. are being monitored continuously and data's are being sending to the SPCB, BBSR through server continuously. Apart from this there are 4 no's. of AAQ monitoring station in the core and 4 no. AAQ monitoring station in the buffer zone for monitoring of the AAQ as per NAAQs notifications published by the CPCB. The monitoring results are being displayed at mines main gate through electronic display board. The photograph of the online AAQ is attached as Photo#11 . The copy of the monitoring report is attached herewith as Annexure -10 .
(ii)	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM ₁₀ and PM _{2.5} are evident such as haul road, loading and unloading point and transfer	Two numbers of Water Tankers with different capacities of 1 X 16KL & 1 X 12KL are provided for adequate water sprinkling on adjacent concrete roads & also provided the mist canon for suppression of the air-borne dust. Apart from that, the project has also installing 750 m length of auto fixed sprinkling system on the mines main haul road areas

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	points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&CC/ Central Pollution Control Board.	towards dust suppression purposes. AAQ monitoring data is being carried out at haul road, loading/unloading point, transfer point, Fugitive Dust Emission source points and monitoring results are well within the norms, the test results is given in Annexure-11 . The photographs of water tanker and Fixed water Sprinkler are given below as Photo#12&13 .
(II)	<u>Water quality monitoring and preservation</u>	
(i)	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and SEIAA, Odisha is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.	As per the approved mining plan by the Indian Bureau of Mines, GoI and hydrogeology study, the groundwater table exists at 510 m RL and present mines operation is restricted at 547 M RL. So, there is no occurrence of groundwater intersection during the reporting period.
(ii)	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 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 wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on	We are monitoring and maintaining the record of the flow rate of the springs and perennial nallahs in and around the mining lease on regular basis. The reports are enclosed as Annexure-3 . Proponent provided the drinking water by water tanker in regular basis. The project is also regularly monitoring the water table in open/dug wells located at respective villages to ascertain the impact of the mining over ground water table. The water level data is enclosed as Annexure-12 . The project also monitoring the ground water quality on regular basis the report of the same are attached herewith as Annexure - 12(A) .

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	changes in Ground water level and quality shall be submitted on six-monthly basis to the Integrated Regional Office of the Ministry, CGWA and State Groundwater Department/ State Pollution Control Board.	
(iii)	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Integrated Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.	The project is carrying out the monitoring of ground water level and quality regularly by covering core and buffer zone area of the project. The monitoring is being carried with specified parameters of SPCB/CPB/MoEF&CC standards and all the test results are found well within the prescribed norms. The Ground water level and quality reports are attached herewith as Annexure-12 and Annexure-12(A). We have installed the Piezo-meter to monitor the ground water table inside our mines by establishing a network of existing wells and constructing new piezometers. The report of the same is being submitted to CGWA on six monthly. Supporting photo of the same is attached as photo-14.
(iv)	The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations	The project proponent maintaining the record of the flow rate of the springs and perennial nallahs in and around the mining lease .Water quality of up-stream and down-stream of water bodies are being monitored regularly and the report of the same is submitted to respective authorities on regular basis. The Surface water quality data is enclosed as Annexure-13 & 13A. Sufficient number of Gullies/check weirs is provided for better management of water. Regular Monitoring of pH of the mines surface run off is being carried and reports of the same is being submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly bases. Photos of check weirs are attached as photo-08. The project is carrying out the monitoring of ground water level and quality on regularly by covering core

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	without justification and prior approval of SEIAA, Odisha. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data be sent regularly to the Integrated Regional Office, Bhubaneswar of MoEF&CC, GoI, SEIAA, Odisha, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six • monthly basis.	and buffer zone area of the project. The monitoring is being carried with specified parameters of SPCB/CPB/MoEF&CC standards and all the test results are found well within the prescribed norms. Report of the ground water table and ground water quality is attached as Annexure-12 & 12A.
(v)	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. 1-20012/1 /2006- IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.	The quality of discharged/run-off water during monsoon is being monitored regularly (COD, TDS, DO, PH and Total Suspended Solids (TSS)] the report of surface runoff is attached herewith as Annexure -3. The monitoring data results are updated in the company website also. And results are displayed in the display board which is present in entrance of mines main gate. The photograph of the display board is attached as Photo#19.
(vi)	The project proponent shall construct retaining wall and settling pond within the lease area. Further, check dams shall be constructed at strategic locations in which rain water passes in rainy season. Finally, the excess supernantated after sedimentation shall be allowed to spill away through stone pitch structure to the	The project is ensuring and implementing the necessary precautionary measures by construction of retaining wall, check dams, check weirs, settling pits at strategic locations in which rain water passes in rainy season. Finally, the excess superannuated after sedimentation shall be allowed to spill away through stone pitch structure to the nearby valley. For

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	nearby valley.	prevention and control of soil erosion and management of silt. Apart from that, the project has also constructed concrete structures of RCC wall at the toe of the dump and strategic locations for prevention of the soil erosion and management of silts. The details of retaining wall check dams and settling ponds are given below in Table#2 . The photographs of same are given as Photo # 7,8,9,15 .
(vii)	De-silting of agricultural lands in buffer zone and beyond including nearby Nalas/rivers perennially periodically and perpetually caused due to wash up of minerals/OB/dumps shall be done as per SOP submitted. Retaining wall shall be constructed to ensure that no silt after wash up is escaped from the core I buffer zone of the mines.	Project proponent has undertaken to de-silt the agricultural lands in buffer zone and beyond including nearby Nallas/rivers perennially periodically and perpetually caused due to wash up of minerals/OB/dumps as per the SOP submitted during grant of Environmental Clearance for 1.8 MTPA Iron ore production. Legal affidavit also made in this regard.
(viii)	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Integrated Regional Office, MoEF&CC as a part of compliance in the six monthly compliance report.	The Rain water harvesting facilities developed in Premises of colony and mine office area along with ground water recharge wells has been implemented in consultation with State Groundwater Department towards augmentation of ground water resources in the area. The photographs of the same are given below as Photo#16 .
(ix)	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated in an ETP as proposed so as to conform to the notified standards prescribed from time to time, as applicable. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.	Oil & Grease Separation unit is provided within the mining lease area with the provisions of sediment settling and filtering of oil and grease. The final outlet is having provision for reuse of treated water for workshop, plantation, dust suppression etc. Purposes. The oil and grease collected from the unit are collected into the leak proof barrels/drums and sold to the authorized re-processors. The photo of the same is enclosed as photo#17 . The monitoring reports of ETP outlet are attached herewith

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		as Annexure-14.
(x)	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF & CC and State Pollution Control Board.	The water balance is carried out and measures for reducing the consumption of water being taken up. Water balance diagram is attached as Annexure-15.
(xi)	The PP shall comply with all conditions as specified by CGWB/ Water Resources Department, Govt. of Odisha for abstraction of ground water for the project.	We are abiding by the said condition.
(xii)	The PP shall install one piezometer for ground water level monitoring and water level data shall be made available to CGWA through web portal as a part of six monthly compliance report.	We have already installed a Piezo-meter to monitor the ground water table inside our mines. The report of the same is being submitted to CGWA on six monthly basis.
(xii)	All industries abstracting ground water in excess of 100 KLD shall be required to undertake biennial (once in two years) water audit through certified auditors of agencies as approved by CGWA and submit audit reports to CGWA.	We are abiding by the said condition.
III	Noise and vibration monitoring and prevention	
(i)	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	Drilling and blasting is carried out as per the recommendation of CIMFR, Dhanbad. Peak particle velocity is being monitored regularly and the result is within the limit as per the DGMS norms.
(ii)	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	The project proponent ensures that No lighting system is facing towards the outside of mining area or towards the forest area or villages, so there is no disturbance of the biological clock of the villagers. The project is also take necessary measure to control the noise level in night time. The monitoring reports of Night time noise levels are attached herewith as

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	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 /night hours.	Annexure -16.
(iii)	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The worker engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	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 reveals very well within norms. All personnel including laborers who are working in dusty areas is provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects.
(IV)	Mining Plan	
(i)	The Project proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, overburden, inter burden and top soil etc.No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of competent authority which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.	The project proponent carrying out the mining operation as per the approved Mining plan which is approved by IBM, GoI and if any change in the technology is required, then we will take the approval of SEIAA. The copy of approved mining plan is attached herewith as Annexure-17.

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(ii)	The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.	The Project is in operation since 2018; Mining Plan with financial assurance plan has been approved by IBM Further, A Final mine closer plan along with a detailed corpus fund will be submitted to the Ministry of Environment & Forest, within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the ministry of Environment, Forest and Climate Change for record and verification.
(iii)	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the concerned Integrated Regional Office. of MoEF&CC.Gol Bhubaneswar .	The project has started backfilling of the proposed southern part of the exhausted mines quarry-1 of an area 3.490 Ha. Out of total ML area of 35.774 Ha as approved in the Mining Plan by IBM. The back-filling area is being monitored and managed with plantation till the vegetation is established and becomes self-sustained to restore the land to a condition. And the compliance of the same is being submitted to Moef&CC in half-yearly basis.
(V)	Land reclamation	
(i)	The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.	The overburden (OB) generated during the mining operation is being stacked at the earmarked dump site(s) only and its active one. Proper terracing of OB dump is being carried out so that the overall slope shall not exceed as per the approved mining plan. The dump is provided with a retaining wall at the toe followed by a garland drain and settling pits. No Topsoil is being generated from mining operation as its operation is restricted to already broken up area only. If any, it will be stored at earmarked site(s) only with proper protection measures.

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(ii)	The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.	The reject/waste generated during the mining operation is being stacked at the earmarked dump site(s) only and its active one. Proper terracing of OB/sub grade dump is being carried out so that the overall slope shall not exceed as per the approved mining plan. The dump is provided with a retaining wall at the toe followed by a garland drain and settling pits.
(iii)	The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.	The reclamation of dumps is being done in scientific manner with as per the approved mining plan. Plantation and environment safeguard measures like provision of Coir matting, plantation, retaining wall, garland drainage provided at the bottom of the dump slopes. The photographs of the dump management is given here as Photo#18 .
(iv)	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.	The maximum heights of the dumps are maintained as per the Mining plan. The OB/sub-grade dumps are being scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, we are using the geo textiles for stabilization of the dump. The entire excavated area shall be backfilled and afforested.
(v)	The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF & CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha.	The dumps are within the height of 30 meters.

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(vi)	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and topsoil / OB / waste dumps to prevent runoff of water and flow of sediments directly into the water bodies (Nallah/ River/ Pono etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.	Catch drains, check dams, check weirs, settling pits, etc. constructed at the toe of the dumps for prevention and control of soil erosion and management of silt. Apart from that, the project has also constructed concrete structures of RCC wall at the toe of the dump and strategic locations for prevention of the soil erosion and management of silts. The collected water is being used for the dust suppression and gardening purpose. The de-siltation of the check dams, and catch drains are being done in regularly.
(vii)	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the comers of the garland drains.	The project has implemented the necessary precautionary measures by construction of guard wall, check dams, check weirs, settling pits at the toe of the dumps for prevention and control of soil erosion and management of silt. Apart from that, the project has also constructed concrete structures of RCC wall at the toe of the dump and strategic locations for prevention of the soil erosion and management of silts.
(viii)	The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.	No Topsoil is being generated from mining operation as its operation is restricted to already broken up area only, if any, it will be stored at earmarked site(s) only with proper protection measures.

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(ix)	The mining lease holders shall, after ceasing mining operations, undertake re• grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc..	The project has started backfilling of the proposed southern part of the exhausted mines quarry-1 area of 3.490 Ha. Till 2022-23 out of total ML area of 35.774 Ha as approved in the Mining Plan by IBM. The back-filling area will be monitored and managed with plantation till the vegetation is established and becomes self-sustained to restore the land to a condition that is fit for the growth of fodder, flora, fauna, etc.
(VI)	Transportation	
(i)	No Transportation of the minerals shall be allowed in case of roads passing through transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening suchthat the carrying capacity of roads is increased to handle the traffic load. 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 Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.	The transportation of the mineral is being carried out in the specified road and the road is being maintained by the project proponent up to main road. The mineral is being transported through road as permitted by District Administration, Keonjhar. The pollution due to transportation load on the environment is being effectively controlled by water sprinkling regularly. Vehicular emissions are being kept under control by regularly maintaining the vehicles. Project is obtaining Pollution Under Control (PUC) certificate for all the vehicles which are running in the mines from authorized pollution testing centres. The PUC certificate of vehicle is attached herewith as Annexure-18 . We are also ensuring that all the trucks used for the mineral transportation are covered with tarpaulin to avoid the spillage of ore. Photo enclosed as Photo #19
(ii)	The Main haulage road within the mine lease should be provided with a permanent water arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer	The mines main haul road and other mines roads are provided with water sprinkling system i.e. mobile water tankers and permanent fixed sprinkling systems. Dry fog system is being installed in our Crusher and screen plant areas to avoid the air borne dust and also encapsulation is provided in conveyor belts of the plants. The photographs of the same are attached

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	points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers. belt• conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.	herewith as Photo#03 .
(iii)	Traffic management shall be done as per recommendation of Traffic Management Study Report.	Traffic management is being followed as per Traffic Management Study Report.
(iv)	The Project Proponent shall provide parking plaza for the heavy vehicles within the lease area as per recommendation of NEERI, as applicable to the project.	The Project Proponent provided parking plaza for the heavy vehicles within the lease area as recommended by NEERI.
(VII)	<u>Green Belt</u>	
(i)	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	Safety zone plantation over 7.5 meter all along the lease boundary already carryout with saplings of 1180 numbers, it is because every year we are doing re-plantation in gap areas and we are also following the Forest Dept. guidelines for the same. The photographs of the same are given below as Photo#01 .
(ii)	The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides. in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected	The project as already carried out plantation over backfilling area of 3.490 Ha. Up to year 2022-23 as per approved in the Mining Plan by IBM. Nearly 6000 plantation has been done in the back filled area. Further, the project has planted 1180 no. saplings of native species across the safety zone, river safety zone, etc. in consultation with local Forest Dept. during the reporting period.

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	which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.	The year wise plantation details are also submitted to the respective authorities and same are given in Table no. #3.
(iii)	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.	No grazing land is involved in the project as the total area is Reserve Forest.
(iv)	The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt and implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.	The project has prepared the Wild Life Conservation Plan in consultation with DFO and the same got approved by PCCF (Wildlife) & Chief Wild Life Warden, Bhubaneswar with an estimated cost of INR 14 Lakhs towards activities to be implemented within the ML area and INR 68 Lakhs towards activities to be implemented by the DFO in the project impact area. The project has carried out the following activities towards the implementation of the Wild Life Conservation Plan within the ML area in consultation with DFO such as plantation of blank areas, conservation measures of soil & moisture, rainwater harvesting measures in core & buffer areas followed by fire protection measures in around of ML area. Further, the project has actively participated in wildlife awareness promotion programs like

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		World Environmental Day, Wildlife week celebration, etc., and has made provision of funds for the other unforeseen expenses. A copy of the approval of the Wild Life Conservation plan is enclosed as Annexure -19.
(VIII)	Human health issues, Public hearing & CER	
(i)	The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis.	The project proponent appointed and Occupational Health Specialist for Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken for employees, who are engaged in the process of mining & are likely exposed to dust to observe any contractions due to exposure to dust. This is being carried as per in compliance to Mines Act 1952 & rules 1956 and amendments thereto. The Periodical Medical Examination & Initial Medical Examination was held for 24 No. of employees from April 2024 to September 2024. The various tests include PFT, X-Ray, and lung spirometry, etc. Based on the above tests, there is none of the above-mentioned employees was found by Silicosis/ Pneumoconiosis or occupational health-related diseases during the examination. The test certificate of the employees is enclosed as Annexure-20.
(ii)	A commitment in form of an undertaking for periodical occupational health checkup of the employee and the local people shall be done through an occupational health expert as per the detailed action plan submitted with the proposal within 6 months from the date of issue of Environmental Clearance.	The project proponent appointed and Occupational Health Specialist for Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken for employees as well as for the local villagers.
(iii)	The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby	The Project Proponent is committed towards 'Zero Harm' from their mining activities and is being carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and appropriate control measures are being taken for protect the health and wellbeing of workers and nearby community. The proponent is maintaining accurate

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	community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.	and systematic records of the HRA.
(iv)	The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin. Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements	Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken periodically for employees, who are engaged in the process of mining & are likely exposed to dust to observe any contractions due to exposure to dust. This is being carried as per in compliance to Mines Act 1952 & rules 1956 and amendments thereto. . The Periodical Medical Examination & Initial Medical Examination was held for 24 No. of employees from April 2024 to September 2024. The various tests include PFT, X-Ray, and lung spirometry, etc. Based on the above tests, there is none of the above-mentioned employees was found by Silicosis/ Pneumoconiosis or occupational health-related diseases during the examination.

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	for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).	
(v)	The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1),Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain. Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF &CC annually along with details of the relief and compensation paid to workers having above indications.	Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken periodically for employees, who are engaged in the process of mining & are likely exposed to dust to observe any contractions due to exposure to dust. This is being carried as per in compliance to Mines Act 1952 & rules 1956 and amendments thereto. . The Periodical Medical Examination & Initial Medical Examination was held for 24 No. of employees from April 2024 to September 2024. The various tests include PFT, X-Ray, and lung spirometry, etc. Based on the above tests, there is none of the above-mentioned employees was found by Silicosis/ Pneumoconiosis or occupational health-related diseases during the examination.
(vi)	The Project Proponent shall ensure that 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.	The personnel's working at dusty areas provided with proper PPEs i.e. nose masks etc. The working force is also being trained with safety and health norms as per Mines and DGMS guidelines.
(vii)	Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP., safe drinking	There is no such housing being made for the labours within the lease area. However the project has provided a temporary housing facility for the work force by facilitating fuel for cooking, septic tank followed by soak pit for domestic effluents (STP-Ultra Filtration

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	water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.	Unit), drinking water, medical health care etc. outside the ML area.
(viii)	The activities proposed in action plan prepared in terms of the provision of the MoEF& CC Office Memorandum No-22-65/2017-IA.III dated 30 September,2020 for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the action plan and within the stipulated time frame. The status report on implementation of action plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration. Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the IRO, Bhubaneswar, MoEF&CC, OSPB & SEIAA, Odisha.	The Details of public hearing compliance addressed during the hearing and the status of the same are attached herewith as Annexure-04 . The project has earmarked the funds for implementation of environment protection measures and the same is being used for environmental protection measures. The Year wise expenditure of such funds is attached herewith as Table1 .
(IX)	<u>Miscellaneous</u>	
(i)	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.	The Digital procession of the entire lease area using remote sensing technique will be carried out within 5 years interval time. Once the data is generated, the same will be communicated to SEIAA, Odisha and MOEF & CC.
(ii)	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.	The Project is in operation since 2018, therefore, the date of financial closure, final approval of the project and date of land development of the project will be intimated.

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(iii)	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the concerned Integrated Regional Office (IRO), Bhubaneswar of Ministry, SEIAA, Odisha, Central Pollution Control Board and State Pollution Control Board.	The project is submitting half yearly compliance report to SEIAA, Orissa as well as the Integrated Regional Office (IRO) of MOEF&CC, Bhubaneswar Central Pollution Control Board and State Pollution Control Board on 1st June and 1st December of each calendar year. The details are mentioned in Table no. #4 .
(iv)	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.	A separate Environmental management cell with suitable qualified personnel is already set-up under the control of a Senior Executive, who is directly reporting to the Head of the Organization Cell of our mines.
(v)	The project proponent shall augment infrastructure on drinking water, health care and education in nearby villages as per time bound action plan submitted.	We are abiding by the said condition. Khandbandh Iron Ore Mines of Sree Metaliks Limited has started operation in March 2018. The issues which rose during the public hearing meeting like road development, Employment, Supply of drinking water, etc. are being fulfilled by the project proponent. The detailed reports of Public hearing compliance are attached herewith as Annexure-04 .
(vi)	The project proponent shall obtain permission from DGMS under 106(2b) to carry out blasting operation within the lease area.	The project proponent obtained the 106(2)(b) permission from the DGMS through letter no. 330863/ SEZ/ Chaibasa Region/Perm/2021/8894 Date 30.06.2021. A copy of the same is attached herewith as Annexure-21 .
(vii)	It shall be mandatory for the project management to submit six (06) monthly compliance reports on post environmental monitoring in respect of the stipulated terms and conditions in this Environmental Clearance to the State Environment Impact Assessment Authority (SEIAA), Odisha, SPCB & Regional Office of the Ministry of Environment & Forest, Odisha in hard and soft copies on 1 st June and 1 st December of each calendar year. No hard copies of six -monthly compliance reports shall be submitted to SEIAA.	We are abiding by the said condition.

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	The proponent shall upload the six monthly compliance report including results of monitored data, as applicable in the website of the Ministry (www.parivesh.nic.in) for monitoring of EC Conditions, failing which EC is liable to be revoked.	
(viii)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Odisha State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective to the concerned Integrated Regional Office(IRO),Bhubaneswar of MoEF&CC,GoI, Central Pollution Control Board and State Pollution Control Board.	The project proponent is submitting the environmental statement for each financial year ending 31st March in Form-V as the Odisha State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, and also we put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective to the MoEF & CC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board. The copy of latest submitted compliance as Annexure - 22.
(ix)	The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Govt. of India, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO, NO (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The project is submitting half yearly compliance report to SEIAA, Orissa as well as the Integrated Regional Office (IRO) of MOEF&CC, Bhubaneswar on 1st June and 1st December of each calendar year. The details are mentioned in Table no. #04. The said critical parameters are being monitored & uploaded to the company's website bearing the address https://www.sreemetaliks.com/ . The said monitored parameters i.e. for AAQ: PM10, PM2.5, SO2, NOx, CO & discharge for surface run-off discharge from the mine (treated), etc. are being displayed at the main gate of the mines of the company for the public domain. The details of the same are enclosed as Annexure -23 & Photo No.20.
(x)	The concerned Integrated Regional Office(IRO) of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full	We are abiding by the said condition. The project authorities will extend full cooperation during any such inspections to the MoEF & CC officer(s) by furnishing the requisite data /

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	cooperation to the MoEF & CC officer(s) by furnishing the requisite data / information / monitoring reports.	information / monitoring reports as applicable.
(xi)	The SEIAA, Odisha may revoke or suspend the EC, if implementation of any of the above stipulated conditions is not satisfactory. The SEIAA, Odisha reserves the right to alter /modify the above conditions or stipulate any further condition in the interest of environment protection.	We are abiding by the said condition.
(xii)	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court and any other Court of Law relating to the subject matter.	We are abiding by the said condition.
(xiii)	This Environmental Clearance (EC) is subject to orders/judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.	We are abiding by the said condition and order issued by the competent authority with due compliance from time to time.
(xiv)	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	We are abiding by the said condition.

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TABLE # 01

Yearly Environmental Expenses					
Sl. No	Description	Budget: Capital Cost(As per EIA/EMP)	Expense in 2021-22 (in Lakhs)	Expense in 2022-23 (in Lakhs)	Expense in 2023-24 (in Lakhs)
1	Air Quality Management				
	Dust Suppression	24.00	26.00	24.50	26.10
	Dry fog	12.00	13.50	5.62	12.10
2	Water Quality Management				
	Retaining Wall & Garland drain	26.285	23.00	25.0	22.50
	Check Dam, Settling Ponds, etc.		3.0	5.0	03.00
3	Dump Management				
	Plantation	0.85	1.0	5.0	04.20
	Coir Matting & grass seed application		2.50	5.20	03.50
4	Occupational Health & Hygiene				
	IME/PME	0.50	4.58	1.20	03.50
	Safety Items				00.10
5	Environmental Monitoring				
	Monitoring Charges	10.00	6.00	6.0	06.0
	Calibration of Instruments	4.00	1.0	0.50	00.40
	Electronic display board		2.65	0.10	00.09
6	Water Conservation Measures				
	Rainwater harvesting and its maintenance	10.00	7.00	0.50	09.20
	Others	--	0	-	00.00
TOTAL		87.635	90.23	78.62	90.69

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Table # 2

Details of the EMP measures implemented

Table No. 2 – Environmental Protection measures

Sl. No	Particulars	Location	Dimensions in M
1	Retaining Wall (L x W x H) in M	Near mine gate sub-grade dump	133X1X1
2	Retaining Wall (L x W x H) in M	Work shop side dump	104x1x1
3	Retaining Wall (RCC) (L x W x H) in M	Nallah side	160x1.5x1
4	Garland drain (L x W x H) in M	From weighbridge gate to bottom crusher side	150x1x0.5
5	Garland drain (L x W x H) in M	On running bench besides mine haul road	200x1x0.5
6	Check dam	Near Pillar No F	8x1x1.5 6x1x1.5
7	Check Weir	Near Pillar No E	27.24x1x1
8	Settling Pit (in CUM)	Near Pillar No E	40x20x3.5
			30x20x3.0
		Near Pillar No D	20x10x3.0

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Table # 3

Plantation in this reporting period

Sl. No.	Particulars	Location	Quantity
1	Plantation (in Nos.)	Gap filling in S/Z	1180
2		Dump i.e. back filling area	1750
2	Coir Matting (in Sq. M)	SG Dump/Backfilled Area	7000 sq. M.

TABLE # 04

Submission of EC Compliance details

EC Compliance submission Details		
Sl. No.	Period	Date of Submission
1.	April to September 2019	25.11.2019
2.	October 2019 to March 2020	13.07.2020
3.	April to September 2020	14.11.2020
4.	October 2020 to March 2021	25.05.2021
5.	April to September 2021	27.11.2021
6.	Oct 21 to March 2022	29.05.2022
7.	April to September 2022	30.11.2022
8.	October 2022 to March 2023	01.06.2023
9.	April to September 2023	24.11.2023
10.	October 2023 to March 2024	06.07.2024

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Supporting photos :

Photo #1: Plantation in Mine Lease Safety Zone and Dump area



Photo #2 : Drilling Machine equipped with water injecting system



Photo #3 : Dry Fog system and hoods at crusher & screen Plants



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Photo #4 : Wheel Wash Facility at the Exit Gate of mines



Photo #5 & 6 : Employees with PPEs & online Noise Monitoring Station Installed at Mines Area



Photo# 7,8 & 9: Settling Pond, Check dam and check weirs for



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Photo# 10 : CSR Activities across the peripheral villages



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Photo# 11 : Ambient Air quality Monitoring Stations & CAAQMs



Photo# 12 : Water tanker engaged for Dust Suppression at site

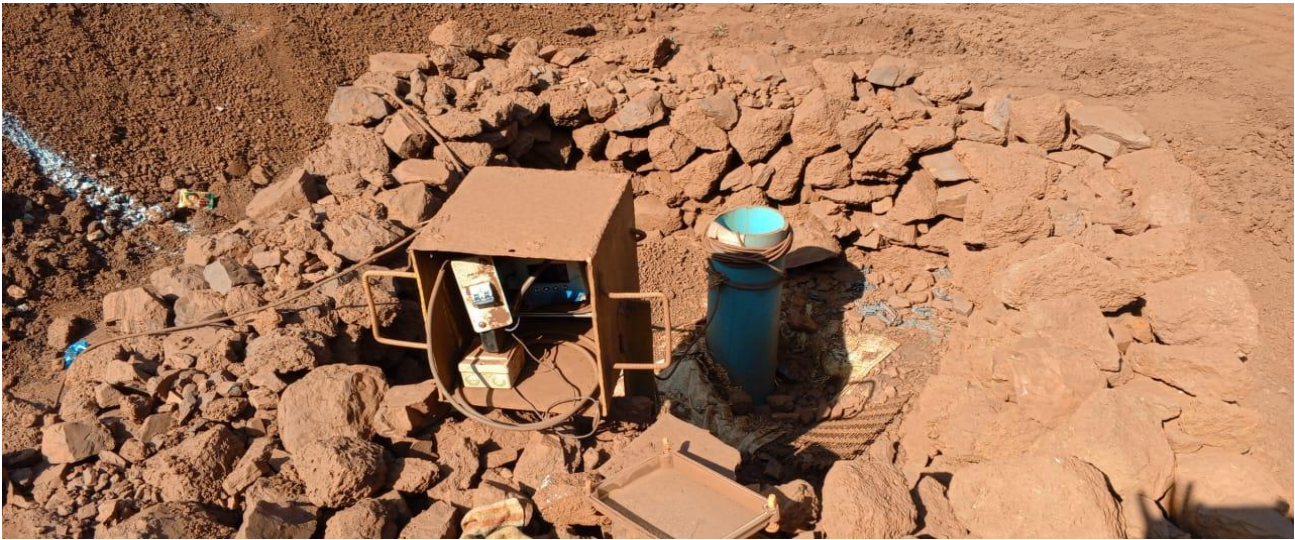


Photo# 13 : Automatic Fixed sprinkler for main haul road dust suppression



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Photo# 14 : Piezometer for Ground water level monitoring



Photo# 15 Retaining wall and garland drain along the toe of Stabilised Dumps



Photo# 16 Roof Top Rainwater Harvesting measures inside the Mine lease area



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Photo# 17 : Effluent Treatment at workshop with Oil & grease trap pit and Oil skimmer



Photo# 18 : Tarpauline Covered trucks at mines out gate before exit



Photo# 19 : Display board at Mines entry gate

