



सेल SAIL

स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
बोकारो इस्पात संयंत्र
BOKARO STEEL PLANT
एम.ओ.एम., चिड़िया
MOM, CHIRIA

Ref. No. : MOM/PC/6/289

Date:30.05.2025

To,
The Dy. Director General of Forest (C)
Regional Office,
Ministry of Environment, Forest and Climate Change,
2nd Floor, Headquarter –Jharkhand State Housing Board,
Harmu Chowk,
Ranchi – 834002.

Sub: Six Monthly status of Compliance to the Conditions Stipulated in Environmental Clearance granted by MOEFCC for 0.75 MTPA Iron ore production from Dhobil Iron Ore Mining project of M/s SAIL vide letter No:J-11015/251/2009-IA. II(M), dated:24.01.2012, Modification vide letter No:J-11015/251/2009-IA.II(M), dated 01.05.2012, Amendment vide letter No:J-11015/251/2009-IA. II(M), dated 19.04.2017, dated 04.04.2022 and dated 21.12.2023 for the period of October-2024 to March-2025.

Sir,

Please find the enclosed herewith the Six monthly compliance report for the period October-2024 to March-2025 with respect to the conditions stipulated by MOEFCC, Gol, New Delhi in the Environmental Clearance grant order of Manoharpur Ore Mines for production of 0.75 MTPA iron ore production from Dhobil Iron Ore Mining project of M/s SAIL vide MoEFCC letter No:J-11015/251/2009-IA. II(M), dated:24.01.2012, Modification vide letter No:J-11015/251/2009-IA.II(M), dated 01.05.2012, Amendment vide letter No:J-11015/251/2009-IA. II(M), dated 19.04.2017, dated 04.04.2022 and dated 21.12.2023.

Thanking you.

Yours faithfully,
For, Steel Authority of India Ltd.

Ravi Ranjan
30/5/25
(Ravi Ranjan)

General Manager (Mining)
MOM, BSL, SAIL

Copy to:

- 1) Director, IA, MoEF&CC, GOI, Indira Paryavaran Bhavan, Aliganj, JorBagh Road, New Delhi -110003.
- 2) Member Secretary, JSPCB, HEC, Dhurwa, Ranchi – 834004.
- 3) In-charge, Central Pollution Control Board, Southern Conclave, Block 502,5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700107 (W. B.).

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हर किसी की जिन्दगी से जुड़ा हुआ है सेल

There's a little bit of SAIL in everybody's life

Status of Compliance to Conditions Stipulated in

Environmental Clearance granted

by

MoEFCC,GoI,New Delhi

Vide Order No: J-11015/251/2009-IA. II (M), Dated: 24.01.2012,

**Modification vide letter No:J-11015/251/2009-IA.II(M), dated
01.05.2012, Amendment vide letter No:J-11015/251/2009-IA.II(M),
dated 19.04.2017, dated 04.04.2022 and dated 21.12.2023**

for production of 0.75 MTPA

From

Dhobil Iron Ore Mining Project

(Period: October' 2024 to March' 2025)



STEEL AUTHORITY OF INDIA LIMITED

BOKARO STEEL PLANT (BSL)

MANOHARPUR ORE MINES

P.O. – CHIRIA, PIN : 833106

DIST. : SINGHBHUM (WEST)

JHARKHAND STATE



Environment Clearance letter No:J-11015/251/2009-IA. II(M), Dated:24th January, 2012 of Dhobil Iron Ore Mining Project for production of 0.75MTPA (ROM) of iron ore.

Half yearly compliance report for the period: October-2024 to March-2025

A. Specific Conditions

Sl. No	Condition	Compliance Status as on March' 2025
i	The project proponent shall obtain Consent to Establish and Consent to Operate from the Jharkhand State Pollution Control Board and effectively implement all the conditions stipulated therein.	Consent to Establishment was obtained from Jharkhand State Pollution Control Board for a capacity of 0.75 MTPA, vide letter no: 1398, dated: 18.05.2012. Consent to Operate has also been obtained from Jharkhand State Pollution Control Board for a capacity of 0.75 MPTA, vide letter Ref No. JSPCB/HO/RNC/CTO-11644643/2022/247, dated: 07.03.2022, with validity up to 31.03.2027. Conditions stipulated in the Consents are being complied with. Status of Conditions Compliance placed as Annexure-1 .
ii	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.	Noted.
iii	Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to the project.	Provision of Wildlife (Protection) ACT 1972 is not attracted to the Project as there are no Wildlife sanctuaries, National Parks or similar places specified in the Act within 10 KM radius of the project.
iv	Environmental clearance is subject to obtaining clearance under Forest (Conservation) Act, 1980 for diversion of forest land. Mine working shall be restricted to the area for which forestry clearance has been obtained.	Forest Clearance was obtained vide letter No: 8-20/98-FC, dated: 21.10.98 for mine working over 29.411 Ha. Mine working restricted within 29.411 Ha for which forestry clearance was obtained.
v	Necessary wildlife clearance, as applicable, shall also be obtained.	There is no wild life sanctuary, National Park, wildlife habitat within 10 KM of project site. Hence, Not Applicable.
vi	The Mining operations shall be restricted to above the groundwater table and it should not intersect the groundwater table. In case of working below the groundwater table, prior approval of the Ministry of	Water table level at mining lease area is about 400 m AMSL and present working depth of the mine is 610 m AMSL and ultimate working depth of the mine is 592m AMSL. Hence there is no intersecting of Mine workings with the ground water table.



Sl. No	Condition	Compliance Status as on March' 2025
	Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	We hereby undertake that In case of working below the groundwater table, we will obtain prior approval of the Ministry of Environment, Forest & Climate Change and the Central Ground Water Authority for which a detailed hydro-geological study will be carried out.
vii	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. The first order streams and the seasonal nallahs originating from the mining lease area shall be protected.	Due precautions are being taken to avoid obstructions to natural water resources by providing drains and bounds etc. at required places.
viii	The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	At present, the mining operations are being carried out within the existing broken area and hence no top soil is generated during this period. If any top soil encountered it will be stored separately and used for reclamation & plantation purpose.
ix	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. There shall be two external over burden dumps. The stabilized dump in area of 5.23 ha shall not be used for dumping in future. The new dump created in an area of 7.9 ha shall have maximum projected height of 15 m. Proper terracing of the OB dumps shall be carried out so that the overall slope of the dump shall be maintained to 28°. The OB dump 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 MOEF and its Regional Office located at Bhubaneswar on six monthly bases.	The over burden (OB) generated during the mining operations is being stored at earmarked site. Dumping of over burden & inter burden waste on stabilized dump (WD-1& WD-2) was stopped. Stabilized through Terracing and Coir geo-textiles and Sal Plantation (native species) over the Waste dumps. Retaining wall with garland drain and settling pits was constructed around the OB Dump no:1 and Dump No:2 to control surface runoff from the dumps. Dimensions of existing Retaining wall are 1.2 m height and 1.2 m width. Photographs showing the retaining wall, garland drain and settling pits, coir geo-textiles, Plantation over Waste Dump No:1& 2, Check Dams constructed around the OB Dumps, Sub Grade dump and Fines dump are placed as Annexure-2 . Reclamation & rehabilitation by backfilling is not applicable because No void has been available for backfilling, as the mine has not gone up to the ultimate pit depth level.



Sl. No	Condition	Compliance Status as on March' 2025
		Six monthly Compliance Status is being submitted to the Ministry of Environment & Forests and Climate Change its Regional Office located at Ranchi.
x	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working soil, mineral and OB dump(s) to prevent run off of water and flow of sediments directly into the HamsadagaarNallah, the koina River, the seasonal nallahs and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de-silted particularly after the monsoon and maintained properly.</p> <p>Garland drains, setting tanks and check dams of appropriate size, gradient and length shall be constructed around the mine pit, soil, mineral and over burden dumps to prevent run off of water and flow of sediments directly into the HamsadagaarNalla, the Koina River, the seasonal nallahs and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and de-silted at regular intervals.</p>	<p>Retaining wall of 1090 m length (325 mts concrete retaining wall & 765 mts length boulder retaining wall) was constructed around the Sub Grade dump, OB Dumps and Fines dump. Dimensions of existing Retaining wall are 1.2 m height and 1.2 m width.</p> <p>Catch drains and settling pits provided at the sub-grade dump / Fines Dump were de-silted. Around 430 m³ of silt has been removed during 2024-25.</p> <p>Photographs showing the retaining wall, garland drain, and settling pits, Check Dams constructed around the OB Dumps, Sub Grade dump and Fines dump are placed as Annexure-2.</p> <p>Sump capacity: At present mining operations are being carried out much above the water table. During the rainy season no working will be planned from the bottom most bench of the mines.</p> <p>The rain water from working area will be channelized towards bottom most working bench of the Mine.</p> <p>Due to pervious nature of the strata the water will be percolated in to the ground within few days.</p> <p>Necessary of pumping was not raised since opening of the mines. Hence the size of the bottom most bench is size of the sump.</p>
xi	Dimension of the retaining wall at the toe of the over burden dumps and the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	<p>Retaining wall of about 1090 m (325 m concrete & 765 m boulder wall) was constructed around the Sub Grade dump, OB Dump and Fines dump.</p> <p>Considering the rainfall data of the area, retaining walls with 1.2 m height and 1.2 m width are being provided and regularly de-silted.</p>



Sl. No	Condition	Compliance Status as on March' 2025																				
xii	The void left unfilled in an area of 6 ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out all along the excavated area.	<p>After complete exploitation of the ore, closure activities will be done as per the IBM approved Progressive Mine Closure Plan. Further, during Mine closure, the following activities will be undertaken for the use of public.</p> <ol style="list-style-type: none">1. The slope of higher benches shall be made gentler and void area 6 ha will be converted into water body.2. Plantation will be done to stabilize the slopes.3. Peripheral fencing will be carried out all along the excavated area. <p>The Existing mining operation is being carried out within 29.411 ha area out of the total lease hold area of 513.036 ha. Retaining walls at Waste dump, Fines, Sub-grade dumps cover North side and most part of the Western side. The Barbed wire fencing (1.5 km) was provided in the remaining working area. Photographs of barbed fencing around the Mine workings are placed at Annexure-3.</p>																				
xiii	Plantation shall be raised in an area of 126.645 ha including a 7.5 m wide green belt in the safety zone around the mining lease, over burden dumps, mine benches, around water body, 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>Total Safety Zone plantation covering 5.90 ha completed and being maintained. Plantation is carried out every year at low tree density areas within ML, road sides etc. Details of year wise afforestation during last nine years are as follows:</p> <table><tr><th>Year</th><th>No of saplings</th></tr><tr><td>2024-25</td><td>1000</td></tr><tr><td>2023-24</td><td>800</td></tr><tr><td>2022-23</td><td>1465</td></tr><tr><td>2021-22</td><td>660</td></tr><tr><td>2020-21</td><td>650</td></tr><tr><td>2019-20</td><td>1100</td></tr><tr><td>2018-19</td><td>600</td></tr><tr><td>2017-18</td><td>600</td></tr><tr><td>2016-17</td><td>600</td></tr></table> <p>The Existing mining operation is being carried out within 29.411 ha area out of the total lease hold area of 513.036 ha.</p> <p>However, 35.87 ha area was covered for green belt development. Out of which 5.88 ha plantation area is within the mining lease and 29.97 ha of plantation area is outside the lease hold area.</p>	Year	No of saplings	2024-25	1000	2023-24	800	2022-23	1465	2021-22	660	2020-21	650	2019-20	1100	2018-19	600	2017-18	600	2016-17	600
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Sl. No	Condition	Compliance Status as on March' 2025
		Present working is being done about 2.0 Km inside the safety zone i.e. lease boundary and most of the Safety Zone area covered by virgin forest. Photographs showing the plantation during 2024-25 are placed at Annexure-4 .
xiv	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.	<p>Regular water sprinkling is being done on haul roads, loading and unloading point by using 4 no's mobile water sprinklers.</p> <p>158 mtr length Fixed water sprinkler installed at Main Haul Road in Dhobil Mines. Water spraying arrangement (DFDSS) has been provided in Mobile crushing and screening Unit.</p> <p>The transportation road is being maintained regularly with proper grading and repair of potholes. The transport roads are also being cleaned regularly including removal of spillages if any to keep clean & tidy.</p> <p>Ambient air quality monitoring is being done at regular intervals and monitoring results are found within the norms of National Ambient Air Quality Standards.</p> <p>Photographs showing Fixed water sprinkler at Main Haul Road, Water spraying arrangement in Mobile crushing & screening Unit, water spraying on haul roads, Siding area and trucks Covered with Tarpaulin Sheet during transportation are placed at Annexure-5.</p>
xv	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.	<p>CGWB, State Unit Office (SUO), Ranchi approved Rainwater Harvesting Plan of Dhobil Mines on 18.01.2024. As proposed in approved plan, to augment ground water resources Roof top Rainwater Harvesting at Guest House and General Office, Chiria and Rain water harvesting pond at Railway Siding Manoharpur & Dhobil Mines have been constructed.</p> <p>Measures taken for augmentation of ground water resources:</p> <p>(i) Check bunds, Garland drains and siltation pond has been constructed to control water flow and surface runoff.</p>



Sl. No	Condition	Compliance Status as on March' 2025									
		<p>(ii) As the mine pits are located at the hill top, all the surface runoff from the mining areas have been diverted to mine pits, from where it seeps in to the ground.</p> <p>(iii) IIT, Kharagpur, a world renowned premier mining institute of the country, was prepared Comprehensive CAT Plan for Saranda forest division.</p> <p>Comprehensive Catchment Area Treatment (CAT) Plan for Saranda Forest area fed by Karo & Koina river system (which includes Kiriburu, Meghahatuburu, Gua & Chiria mines of SAIL) was approved by PCCF (HoFF), GoJ on 01.02.2022 with total financial outlay of Rs. 12286.307 lakh (all mines located in Saranda) to be utilized for execution of different work items. Accordingly, DFO, Saranda vide letter dated 28.11.2022 directed to deposit an amount of Rs. 5.43 crores for all leases of Manoharpur Ore Mines (including Dhobil lease) which was deposited by SAIL on 29.11.2022 towards implementation of recommendation related to Bio-conservation, Eco-restoration & Infrastructures as per approved CAT Plan.</p> <p>The CAT structures (04 nos) as suggested by IIT KGP in the approved comprehensive CAT Plan wrt Dhobil lease (Three Check dams and One Toe Wall) has already been Constructed.</p>									
xvi	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 on 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 Forest and its Regional Office	<p>Network of 6 nos. of existing Dug Wells located around the mines have been selected for ground water level monitoring. Ground water table levels at the selected wells are being monitored at regular intervals i.e. 4 times in a year.</p> <p>The Range of water levels during Post Monsoon and during winter is as follows,</p> <table border="1"> <thead> <tr> <th>ID</th><th>Location</th><th>Water level below the Ground Surface (in meters)</th></tr> </thead> <tbody> <tr> <td>G1</td><td>Adjacent to community centre at Anqua</td><td>6.15- 6.30</td></tr> <tr> <td>G2</td><td>Opposite to community centre at Anqua</td><td>6.30-6.40</td></tr> </tbody> </table>	ID	Location	Water level below the Ground Surface (in meters)	G1	Adjacent to community centre at Anqua	6.15- 6.30	G2	Opposite to community centre at Anqua	6.30-6.40
ID	Location	Water level below the Ground Surface (in meters)									
G1	Adjacent to community centre at Anqua	6.15- 6.30									
G2	Opposite to community centre at Anqua	6.30-6.40									



Sl. No	Condition	Compliance Status as on March' 2025		
	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.	G3	Near Anqua Model Steel Village Gate	1.90-2.10
		G4	Siva Mandir	3.25-3.35
		G5	Near CNI Church	7.95-8.00
		G6	Near Bisra Chowk	1.70-1.80
		In addition to above Two piezometers one at Chiria (150 feet) and another at Dhobil Village 200 feet provided and are being monitored at regular intervals i.e. 4 times in a year.		
		Monitoring data of Groundwater level and Surface water quality is being submitted to Central ground Water Authority and Central Ground Water Board, Ranchi. Ground water levels during Post Monsoon and during Winter and piezometer photograph is placed in Annexure – 7 .		
xvii	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 maintained.	Regular monitoring of flow rate of water at perennial nalla i.e. Hamsadagaar Nalla, is being monitored on monthly basis through NABL Accredited lab/ JSPCB authorized agencies and records are being maintained.		
xviii	Regular monitoring of water quality upstream and downstream of the HamsadagaarNalla shall be carried out and record of monitored date should be maintained and submitted to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, the Central Groundwater Authority, the State Pollution Control Board and the Central Pollution Control Board.	Water quality monitoring at both upstream and downstream of Hamsadagaar Nalla is being done on monthly basis through NABL Accredited lab/ JSPCB authorized agencies and results are being submitting to Ministry of Environment, Forest & Climate Change, it's Regional Office, Ranchi, the Central Groundwater Authority, the State Pollution Control Board and the Central Pollution Control Board. The Range of upstream and downstream Parameters during October-2024 to March-2025 is as follows-		
		Parameter	Unit	Up-stream
		pH(at 24.8°C)	-	6.69-7.52
		Temperature	°C	23.30-25.10
		Turbidity	NTU	10.90-32.40
		Colour	Hazen	13.40-24.00
		DO	mg/L	6.5-7.20
		BOD	mg/L	BDL (DL:1.0)
		TH (as CaCO ₃)	mg/L	72.7-86.40
		TDS	mg/L	166.0-185.0
		TSS	mg/L	28.80-45.20
		Iron	mg/L	0.072-0.430
				0.087-0.160



Sl. No	Condition	Compliance Status as on March' 2025
		Water quality Monitoring data is being submitted to Central ground Water Authority and Central Ground Water Board, Ranchi. Water quality data is attached in Annexure – 8 .
xix	The Project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) required for the project.	Permission obtained from Water Resource Department, Govt. of Jharkhand and agreement has been made with Water Ways Division, Chaibasa for drawl of water from Hamsadagara Nalla to the tune of 0.62 MCM per annum for Manoharpur Ore Mines, Chiria with validity up to 02.08.2027.
xx	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	<p>CGWB, State Unit Office (SUO), Ranchi approved Rainwater Harvesting Plan of Dhobil Mines on 18.01.2024. As proposed in approved plan, Roof top Rainwater Harvesting and Rain water harvesting pond are constructed.</p> <p>Three rainwater harvesting ponds have been provided at Mines Area, General Office, Chiria and Manoharpur Railway Siding Area.</p> <p>As the mine pits are located at the hill top, all the surface runoff from the mining areas have been diverted to mine pits, from where it seeps in to the ground.</p> <p>Photograph showing the roof top Rain water harvesting for Guest House & rainwater harvesting ponds are placed at Annexure – 9.</p>
xxi	Appropriate mitigative measures shall be taken to prevent pollution of the Koina River in consultation with the State Pollution Control Board.	<p>As the mine pits are located at the hill top, all the surface runoff from the mining areas have been diverted to mine pits, from where it seeps in to the ground.</p> <p>As per the instruction of Jharkhand State Pollution Control Board during site visits Retaining wall, check dams, garland drains have been constructed to prevent pollution of water bodies at Dhobil Mines.</p> <p>Comprehensive Catchment Area Treatment (CAT) Plan for Saranda Forest area fed by Karo & Koina river system (which includes Kiruburu, Meghahatuburu, Gua & Chiria mines of SAIL) was approved by PCCF (HoFF), GoJ on 01.02.2022 with total financial outlay of Rs. 12286.307 lakh (all mines located in Saranda) to be utilized for</p>



Sl. No	Condition	Compliance Status as on March' 2025
		<p>execution of different work items. Accordingly, DFO, Saranda vide letter dated 28.11.2022 directed to deposit an amount of Rs. 5.43 crores for all leases of Manoharpur Ore Mines (including Dhobil lease) which was deposited by SAIL on 29.11.2022 towards implementation of recommendation related to Bio-conservation, Eco-restoration & Infrastructures as per approved CAT Plan.</p> <p>The CAT structures suggested by IIT KGP within Dhobil Mining lease (Three Check dams and One Toe Wall) were Constructed in consultation with the SPCB / Sate Forest Dept.</p>
xxii	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 from mine face to the beneficiation plant. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	<p>Pollution Under Control (PUC) certificate is made compulsory for deployment of vehicles in Mines. Scheduled/Preventive maintenance of HEMM and light vehicles are under taken in Workshops/Garages to keep emissions level under control.</p> <p>The vehicles used for transportation of ore are covered with tarpaulins and ensured that there is no overloading.</p>
xxiii	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.	<ol style="list-style-type: none"> 1. Blasting is being done only in day time in specified time i.e. 4 – 4.30 PM. 2. Controlled blasting with slurry explosives and NONEL detonators is being done to minimize ground vibrations and to arrest fly rocks & boulders.
xxiv	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.	<p>The entire mine lease is in Ankua RF of Saranda Forest Division. The mining and associated activities in Dhobil Iron Ore Mining Project are confined in already broken up area of 29.411 ha out of total lease area of 513.036 ha. Land use and land cover (LULC) map of Dhobil lease area has been prepared by Department of Mining Engineering Indian Institute of Technology (Indian School of Mines) Dhanbad using high Resolution Satellite image obtained from Cartosat-2 LISS-IV sensor on the scale of cadastral map arranged from NRSC.</p> <p>Land use and land cover pattern of the lease area as on January 2025 is as follows,</p>



Sl. No	Condition	Compliance Status as on March' 2025	
		LU/LC classes	Area (ha)
		Mine lease Boundary	513.036
		Dense forest	338.593
		Open forest	49.898
		Mining area	27.454
		Water body	0.100
		Built-up land	0.543
		Open scrub / Agriculture land	43.029
		Waste Land	53.419
		LU/LC Report prepared by Department of Mining Engineering, IIT (Indian School of Mines) Dhanbad is given in the Annexure – 10.	
xxv	Drills shall either be operated with dust extractors or equipped with water injection system.	Drills are equipped with water injection system.	
xxvi	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.	<p>Regular water sprinkling is being done on haul roads, loading and unloading point by using 4 no's mobile water sprinklers.</p> <p>158 mtr length Fixed water sprinkler installed at Main Haul Road, Dhobil Mines. Water spraying arrangement has been provided in Mobile crushing and screening Unit.</p> <p>19 KL Water tank below the surface was constructed and Fixed water pipe line of 400mts has been laid in siding area. Water tapes have been provided at 50 mts interval for spraying of water with flexible hose to prevent dust generation.</p> <p>Being ensued effective operation of mobile sprinklers @ 4–5 hrs per shift.</p> <p>Ambient air quality monitoring is being done at regular intervals and monitoring results are ensuring as per the National Ambient Air Quality Standards.</p> <p>Photographs showing Fixed water sprinkler at Main Haul Road, Water spraying arrangement in Mobile crushing & screening Unit, water spraying on haul roads, Siding area and trucks Covered with Tarpaulin Sheet during transportation are placed at Annexure-5.</p>	



Sl. No	Condition	Compliance Status as on March' 2025
xxvii	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>Septic Tanks with soaking pits have been provided for the various accommodations. Septic Tank & Soaking Pits are being cleaned regularly and maintained.</p> <p>5KLD STP & 5KLD ETP has been installed and put in operation from 25.02.2025. at SAIL Chiria Hospital. Photographs showing the 5KLD STP & 5 KLD ETP are placed at Annexure-6.</p> <p>For Supply, Installation, Testing, Commissioning and maintenance of 30 KLD STP at Chiria township Open Tender Enquiry was issued vide Ref No: BSL/JGOM/CC/18 of 2024-25 dated 29.03.2025 and four parties submitted bids. Installation of 30KLD STP will be completed by 31st December-25.</p> <p>Since 1998, the mine is operated through Composite Mining contractor and all the HEMM and equipment were deployed by the contractor. Most of maintenance jobs are done at their work shop at Rourkela/Manoharpur.</p> <p>However, Vehicle washing facility with Oil grease traps was provided at Chiria general office for vehicles.</p>
xxviii	Pre-placement medical examination and PME 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.	Pre-placement medical examination and periodical medical examination of all the workers engaged in the Mine are being carried out and records are being maintained.
xxix	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely elephant, sloth bear, Indian wolf, python etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the	All precautions are under taken not to disturb the flora and fauna in the mining lease area. Necessary facilities are being extended to local forest department for their inspection and monitoring of forest area. IWLMP for West Singhbhum District of Jharkhand was prepared by an Expert Committee constituted by the State Govt. vide notification dated 27.08.2011. SAIL was assigned responsibility for institutionalizing and funding the study. After submission of report on IWLMP by the Committee, GoJ vide letter dated 19.09.2014 forwarded to MoEFCC, GoI. MoEFCC vide order dated 26.08.2014 constituted a Multi-Disciplinary Expert Committee



Sl. No	Condition	Compliance Status as on March' 2025
	project cost. All the safeguard measures brought out in the wildlife Conservation Plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bhubaneswar.	<p>(MDEC) to examine IWLMP. IWLMP was again refined and revised IWLMP was finally submitted by the Expert Committee to GoJ and MoEFCC, GoI on 10.03.2016. Final IWLMP was appraised in 45th meeting of Standing Committee of National Board for Wildlife on 04.09.2017 wherein the committee appreciated the IWLMP.</p> <p>MPSM was approved by MoEFCC on 08.06.2018 wherein it has been stated that the prescription of IWLMP prepared and approved by the State Wildlife Authority, National Board of Wildlife (NBWL) and Project Elephant (PE) of MoEFCC must be followed. IWLMP was presented before GoJ on 29.10.2018. Further the compliance of the observations pointed was submitted by SAIL to GoJ on 01.02.2019. Further, GoJ vide letter dated 30.04.2019 raised certain queries, which was replied on 31.05.2019.</p> <p>IWLMP is pending with GoJ for approval. Realization of money towards implementation of IWLMP shall be collected from lease holders.</p> <p>SAIL has submitted an undertaking to abide by the guidelines and contribute fund for implementation of IWLMP on prorated basis.</p>
xxx	The entire mining lease area shall be fenced by erecting solar powered electric fencing all round it. The fencing so erected shall be maintained properly and the cost towards erection and maintenance of solar powered electric fencing shall be borne by the project proponent out of the project cost.	<p>As the project area falls within the RF, the matter has been discussed with forest officials. State Forest Department officials are of the opinion that Solar fencing may obstruct/ effect the movement of wild life animals.</p> <p>Accordingly, the matter is being discussed with DFO, Saranda Division and a request letter has been submitted to DFO, Saranda on 12.03.2024 and 21.03.2025 .</p> <p>For installation of 2KMs Solar Power Fencing along the Dhobil Working area (FC permitted area) Open Tender Enquiry was issued vide Ref No: MOM/CC/NIT/2025-26/01, dated 18.04.2025 and five parties submitted bids. Installation will be completed by Oct-25</p>



Sl. No	Condition	Compliance Status as on March' 2025
xxxi	No transportation of ore outside the mine lease area shall be carried out after the sunset.	No transportation of ore outside the mine lease area allowed after the sunset
xxxii	The critical parameters such as RSPM (Particulate matter with size less than 10 um i.e. PM10) and NOx in the ambient air within the impact zone, peak particle velocity at 300 m 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 (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.	<p>Regular air & water quality monitoring is being done on monthly basis and results are being submitted to State Pollution Control Board and other statutory authorities.</p> <p>Blast induced ground vibration study was conducted through M/S IOCL Business Development Group (E). Study reports Max PPV (mm/s) in any orthogonal direction is 2.278 mm/s, whereas Max PPV mm/sec) permissible as per DGMS is 15mm/s.</p> <p>Results of Air & Water quality data is being displayed at in public domain through Electronic Display board at main gate of General Office of Mines.</p> <p>Photograph of Electronic Display board is place at Annexure-11.</p>
xxxiii	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.	<p>Not Applicable at present. Presently mining activities is restricted with 29.411 ha area only. However, after complete extraction of ore, the Mine Closure activities will be done as per the IBM approved Mine Closure Plan.</p> <p>We hereby undertake that, Final Mine closure plan along with the fund details will be submitted to the ministry 5 years in advance.</p>

**B. General Conditions**

Sl. No	Condition	Compliance Status as on March' 2025
i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Mining is done as per the IBM approved Mining Plan. No change in mining technology and scope of working has been made.
ii	No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.	ROM production and total excavation are kept within permitted EC capacity and as per the approved Mining Plan. The quantity of Production from 1 st April-2024 to 31 st March-2025 is as follows: Lump: 197949.54 Tons Fines : 209457.05 Tons ROM: 407406.59 Tons
iii	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 10µm 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 State Pollution Control Board.	Ten nos. of Air quality monitoring stations have been established considering the topographical features and meteorological data. Regular Air & Water quality monitoring is being done on monthly basis and results are being submitted to State Pollution Control Board and other statutory authorities.
iv	Data on ambient air quality RSPM (Particulate matter with size less than 10µm i.e., PM10) & NOx should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Bhubaneswar and the State Pollution Control Board/Central Pollution Control Board once in six months.	Ambient air quality monitoring data is being submitted to Jharkhand State Pollution Control Board and Central Pollution Control Board, MoEF& CC, New Delhi and Regional Office, Ranchi along with the compliance reports. Environmental Lab has been set up at Manoharpur Ore Mines, Chiria with the following equipment - a)Respirable Dust Sampler,Model-APM460(BL), b) Fine Particulate Sampler, Model-PM 550 M, C) Gaseous Sampling Attachment, Model-APM 411(TE), D) Sound Level meter, Model-SLM 100, E) Multi parameter Tab, F) Turbidity Meter, G) UV Spectrophotometer, F) Analytical Weighing Balance.



Sl. No	Condition	Compliance Status as on March’ 2025																																										
		<p>Air, Water and Noise quality monitoring is being carried out by MOM Chiria on monthly basis regularly.</p> <p>In addition to this, environmental quality monitoring is also being carried out by NABL accredited Labs on monthly basis.</p> <p>PM10 Continuous Ambient Air Quality Monitoring station (CAAQMS) was installed at Railway siding with online connectivity to JSPCB/PCB portal on 07.09.2020.</p> <p>PM10 CAAQMS station photographs and CAAQMS Ambient Air Quality Monitoring report is placed as Annexure – 12.</p>																																										
v	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.	To minimize fugitive dust emissions Water spraying on haul roads, loading and unloading and at transfer points are being done regularly. Photographs showing Fixed water sprinkler at Main Haul Road, Water spraying arrangement in Mobile crushing & screening Unit, water spraying on haul roads, Siding area and trucks Covered with Tarpaulin Sheet during transportation are placed at Annexure-5.																																										
vi	Measures should be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs.	<p>Workers engaged in operations of HEMM are provided with ear plugs. The Range of noise level during October-2024 to March-2025 is as follows :</p> <table><tr><th rowspan="2">S. No.</th><th rowspan="2">Location</th><th colspan="2">Observed Noise level {Leq in dB(A)}</th></tr><tr><th>Day Time</th><th>Night Time</th></tr><tr><td>1</td><td>Dhobil Mines</td><td>70.3-70.8</td><td>56.1-56.3</td></tr><tr><td>2</td><td>Mobile Crushing & Screening Plant</td><td>73.7-74.3</td><td>61.5-62.5</td></tr><tr><td>3</td><td>Sukri ML Junction</td><td>67.1-69.1</td><td>55.7-58.7</td></tr><tr><td>4</td><td>Gindung Village</td><td>64.8-68.4</td><td>51.4-54.9</td></tr><tr><td>5</td><td>Manoharpur Railway Siding</td><td>68.2-68.3</td><td>57.6-64.4</td></tr><tr><td>6</td><td>Patharbasa</td><td>61.7-63.5</td><td>50.2-50.7</td></tr><tr><td>7</td><td>General Office</td><td>63.1-64.5</td><td>48.7-49.2</td></tr><tr><td>8</td><td>Dhobil Village</td><td>52.7-59.4</td><td>44.1-44.4</td></tr><tr><td>9</td><td>Chiria Hospital</td><td>48.4-49.1</td><td>38.9-39.3</td></tr></table> <p>Noise levels measured in and around the mines is placed in Annexure – 13.</p>	S. No.	Location	Observed Noise level {Leq in dB(A)}		Day Time	Night Time	1	Dhobil Mines	70.3-70.8	56.1-56.3	2	Mobile Crushing & Screening Plant	73.7-74.3	61.5-62.5	3	Sukri ML Junction	67.1-69.1	55.7-58.7	4	Gindung Village	64.8-68.4	51.4-54.9	5	Manoharpur Railway Siding	68.2-68.3	57.6-64.4	6	Patharbasa	61.7-63.5	50.2-50.7	7	General Office	63.1-64.5	48.7-49.2	8	Dhobil Village	52.7-59.4	44.1-44.4	9	Chiria Hospital	48.4-49.1	38.9-39.3
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Sl. No	Condition	Compliance Status as on March’ 2025																				
vii	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) dated19th 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.	Vehicle washing facility with Oil grease traps was provided at Chiria general office for vehicles. Industrial waste water (Workshop and waste water from the mine) is being properly collected and details of oil collected from the Oil & Grease trap are being marinated in log book.																				
viii	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.	Dust masks are provided to all employees engaged in dust prone areas. 208 employees (Contractual & Departmental) have undergone training on safety & health aspects during FY 2024-25. 136 employees have undergone occupational health surveillance program during FY 2024 -25.																				
ix	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.	A full-fledged Environment Management Cell (EMC) has been established to look after environment aspects headed by an experienced engineer with more than 20 years’ experience in the field of environment in the rank of DGM who directly reports Head of Mines.																				
x	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 of Environment and Forests and its Regional Office located at Bhubaneswar.	There will be separate budget for Environment & Lease department. The allocated budget will be exclusively used for Environment & Lease expenses only. Year wise expenditure from 2013-14 on Environmental protection measures is as furnished below:- <table><tr><th>Year</th><th>Approximate Expenditure</th></tr><tr><td>2024-25</td><td>74.69 Lakhs</td></tr><tr><td>2023-24</td><td>70.96 Lakhs</td></tr><tr><td>2022-23</td><td>58.97 Lakhs</td></tr><tr><td>2021-22</td><td>57.82 Lakhs</td></tr><tr><td>2020-21</td><td>53.67 Lakhs</td></tr><tr><td>2019-20</td><td>53.45Lakhs</td></tr><tr><td>2018-19</td><td>48.54 Lakhs</td></tr><tr><td>2017-18</td><td>50.84 Lakhs</td></tr><tr><td>2016-17</td><td>53.02 Lakhs</td></tr></table>	Year	Approximate Expenditure	2024-25	74.69 Lakhs	2023-24	70.96 Lakhs	2022-23	58.97 Lakhs	2021-22	57.82 Lakhs	2020-21	53.67 Lakhs	2019-20	53.45Lakhs	2018-19	48.54 Lakhs	2017-18	50.84 Lakhs	2016-17	53.02 Lakhs
Year	Approximate Expenditure																					
2024-25	74.69 Lakhs																					
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2021-22	57.82 Lakhs																					
2020-21	53.67 Lakhs																					
2019-20	53.45Lakhs																					
2018-19	48.54 Lakhs																					
2017-18	50.84 Lakhs																					
2016-17	53.02 Lakhs																					



Sl. No	Condition	Compliance Status as on March' 2025	
		2015-16	44.60 Lakhs
		2014-15	25.70 Lakhs
		2013-14	42.00 Lakhs
xi	The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	This old mine started operation in the year 1991. Hence start of land development not Applicable. However, the copy of the Environmental Clearance has been sent to the Regional Office, MoEF, Ranchi for kind information.	
xii	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 R. O. by furnishing the requisite date/information/monitoring reports.	Full co-operation is extended to the officers of the Regional Office, MoEF& CC, Ranchi, by furnishing the requisite data / information / monitoring reports.	
xiii	The project proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the MoEF, its R.O. Bhubaneswar, The respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the EC 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 & Forests, Bhubaneswar, the respective Zonal Office of CPCB and SPCB.	Six monthly compliance reports on the status of implementation of environmental safeguards are being submitted to MoEF&CC, New Delhi, Regional Office – MoEF&CC, Ranchi, Central Pollution Control Board and State Pollution Control Board. Copy of the compliance report including environmental quality data is being uploaded to the SAIL web site i.e. www.sail.co.in .	
xiv	A copy of the clearance letter shall be sent by the proponent to concerned panchayat, ZilaParisad/Municipal Corporation, Local Body and the Local NGO, if any from whom suggestions, if any were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	The copy of Clearance letter was notified in the public places. The clearance letter has been put on the Company website i.e. www.sail.co.in .	



Sl. No	Condition	Compliance Status as on March' 2025
xv	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.	-
xvi	The environmental statement for each financial year ending 31 st 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 clearance conditions and shall also be sent to the Regional office of the Ministry of Environment and Forests, Bhubaneswar by e-mail.	Environmental Statement for the financial year 2024-25 ending 31 st March, 2025 has been submitted to the Jharkhand State Pollution Control Board vide reference No: MOM/PC/6/286, dated: 03-05-2025.
xvii	The project authorities should advertise at least in two local newspapers of the District or State in 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.	Advertisement was given in two local newspapers Times of India (English) and PrabathKabar(Local Language Hindi) within 7 days of the issue of the environmental clearance for the project.
Condition of EC amendment on 04.04.2022		
	The project Proponent Shall submit a progress report completion of the conveyor belt on six monthly basis	While granting Stage – I Forest Clearance (FC) over 595.075 ha during March 2011 for development of Manoharpur Group of Mining Leases, MoEFCC inter-alia stipulates that : ➤ Condition No. 1 : Over the next 20 years, only 25% of the total forest area being diverted (i.e. 595.075 ha) will be broken up.



Sl. No	Condition	Compliance Status as on March' 2025
		<p>➤ Condition No. 14 : Only mining and primary and secondary crushing would take place in the forest area. Processing, beneficiation, blending, stockpiling, railway sidings, infrastructure and all township facilities will be 15 km away in non-forest land.</p> <p>➤ Condition No. 15: Only closed conveyor systems will be used for transportation of ore.</p> <p>Accordingly, development of Chiria has been planned with State-of-the-art technologies to comply with conditions imposed in Stage-I FC. DPER for development of Chiria Mines made through reputed consultant M/s HATCH, Australia for expansion to 7.0 MTPA with a scope to expand to 15 MTPA in 2nd Phase. Processing, beneficiation, blending, stockpiling, railway sidings were proposed at Patharbasa (Nearest available Non-forest) which is about 15 km from mines.</p> <p>i). Subsequently, the FC proposal for diversion of 14.88 Ha forest land for installation of Land Distance Belt Conveyor was submitted online on 31.01.2017. The proposal was considered by Regional Expert Committee (REC) of MoEFCC, Regional Office (RO), Ranchi on 11.03.2019. Subsequently, MoEFCC, RO, Ranchi vide letter Odated 14.03.2019 sought certain information from PCCF (Nodal), GoJ.</p> <p>ii). MoEFCC, RO, Ranchi vide letter dated 02.04.2019 requested MoEFCC, GoI to convey the outcome of the review of Management Plan for Sustainable Mining (MPSM) of Saranda & Chaibasa districts, so that decision can be taken for diversion of 14.88 ha FC proposal of Chiria.</p> <p>iii). The information sought by MoEFCC, RO, Ranchi vide letter dated 11.03.2019 was submitted by</p>



Sl. No	Condition	Compliance Status as on March' 2025
		<p>SAIL to DFO, Saranda vide letter dated 12.08.2019 & subsequently on 02.03.2020. Further, PCCF (Nodal), GoJ vide letter dated 05.01.2021 forwarded the FC proposal for diversion of 14.88 Ha forest land to Principal Secretary (F, E & CC), Jharkhand. Thereafter, OSD (F, E & CC), GoJ vide letter dated 04.02.2021 requested Secretary, (Mines & Geo), GoJ to provide lease period validity of Manoharpur Group of Mining Leases. It is pertinent to mention that the extension of lease period of Chiria leases has been linked with No-Mining Zone issue of MPSM. Since, 05.01.2021, FC proposal for diversion of 14.88 Ha forest land is pending with Principal Secretary (F, E & CC), Jharkhand.</p> <p>iv). In view of decision of MoEFCC for keeping Chiria leases under "No Mining Zone", Chairman, SAIL vide letter dated 11.07.2022 requested for the intervention of the Ministry of Steel for taking up the matter with MoEFCC to enable mining in other mining leases of Chiria over and above already broken up area of Dhobil lease where mining is continuing. Consequently, Hon'ble Steel Minister, vide letter dated 20.07.2022 requested Hon'ble Minister MoEFCC to allow mining in already broken up area of the Chiria leases which are with SAIL for a long time, along with resumption of Reassessment Study on MPSM to be carried out concurrently.</p> <p>(vi) In reply to the request of Hon'ble Minister of Steel, Hon'ble Minister MoEFCC vide letter dtd 11.08.2022 informed that the decision to discontinue the re-assessment study entrusted to ICFRE has already been communicated to Ministry of Steel on</p>



Sl. No	Condition	Compliance Status as on March' 2025
		<p>11.04.2022.</p> <p>Therefore, due to No-Mining Zone issue of MPSM, the FC proposal for diversion of 14.88 Ha forest land for installation of Land Distance Belt Conveyor of Chiria is pending and consequently there is no progress in completion of the conveyor belt.</p>

Specific EC Conditions for (Mining of Minerals) in EC amendment on 21.12.2023.

Sl. No	Condition	Compliance Status as on March' 2025
1.1	As committed by the Project Proponent, modular type STPs shall be installed in place of Septic Tanks by March, 2024 with a provision to use the treated sewage for plantation.	<p>5KLD STP & 5KLD ETP has been installed and put in operation from 25.02.2025 at SAIL Chiria Hospital. Photographs showing the 5KLD STP & 5 KLD ETP are placed at Annexure-6.</p> <p>For Supply, Installation, Testing, Commissioning and maintenance of 30KLD STP at Chiria township Open Tender Enquiry was issued vide Ref No: BSL/JGOM/CC/18 of 2024-25 dated 29.03.2025 and four parties submitted bids. Installation of 30KLD STP will be completed by 31st December-25.</p>
2.1	The project proponent shall strictly adhere to the conclusions made in the minutes of personal hearing dated 10.11.2023.	Noted.
2.2	This amendment in EC will be valid for a period of a 2 (two) years only w.e.f 23.01.2024.	Noted.
3.1	The Project Proponent shall adhere to the pollution control measures suggested by the Central Pollution Control Board (CPCB) in the environmental guidelines for crushing/screening activity.	Water spraying (DFDSS) provided in Mobile crushing & screening Units. All the Conveyor belts and transfer points are covered with flexible sheets. Three sides and top of hopper (Unloading Point) covered with GI Sheets.
4.1	The Project Proponent shall strictly adhere to the conclusions made during the personal hearing held on 10.11.2023.	Noted.
4.2	All other terms and conditions mentioned in the EC letter dated 24.01.2012, 01.05.2012, 19.04.2017 and 04.04.2022 shall remain unchanged.	Noted.



5.1	To increase the density of trees, the Project Proponent needs to undertake the plantation in low density areas within the mine lease area.	Plantation is carried out every year at low tree density areas within ML.
6.1	Mining activity is restricted to an area of 29.411 ha for which the Stage-II Forest Clearance is available.	Forest Clearance was obtained vide letter No: 8-20/98-FC, dated: 21.10.98 for mine working over 29.411 Ha. Mine working restricted within 29.411 Ha for which forestry clearance was obtained.
7.1	The Project Proponent should follow-up the matter regarding solar powered electric fencing with DFO, Saranda to reach at a decision thereof.	The matter is being discussed with DFO, Saranda Division and a request letter has been submitted to DFO, Saranda on 12.03.2024 and 21.03.2025. For installation of 2KMs Solar Power Fencing along the Dhobil Working area (FC permitted area) Open Tender Enquiry was issued vide Ref No:MOM/CC/NIT/2025-26/01,dated 18.04.2025 and five parties submitted bids. Installation will be completed by Oct-25
8.1	The Project Proponent shall convert the unpaved road into concrete road to reduce the fugitive dust.	For construction of 80 mtr length Cement concrete road before enter into Public road at Railway Siding Manoharpur Open Tender Enquiry was issued vide Ref No: MOM/CC/NIT/2025-26/03, dated 25.04.2025 and three parties submitted bids. Construction will be completed by Oct-25
8.2	Fugitive dust monitoring during transportation shall be monitored regularly at all the sensitive receptors and report shall be submitted quarterly to the Regional Office of MoEF&CC.	Fugitive dust monitoring during transportation are being monitored through NABL accredited lab regularly at all the sensitive receptors and report are being submitting on quarterly to the Regional Office of MoEF&CC. Monitoring report for Q4 of 2024-25 is attached as– Annexure -14 .
8.3	Over loading of transport equipment's should be avoided to prevent spillage. Vehicles involved in transporting the material should be covered with tarpaulin to prevent fugitive dust emission.	Trucks Covered with Tarpaulin Sheet during transportation and Ensuring no over loading of transport equipment's to prevent spillage.
8.4	The Project Proponent shall maintain the entire mineral transportation route by road at their own cost. The Project Proponent shall also periodically maintain the roads to reduce the fugitive emissions from roads and also the vehicular emissions.	The entire mineral transportation route by road is being maintained regularly to prevent fugitive emissions



8.5	Regular sprinkling shall be done on roads to suppress the dust at the source.	Regular water sprinkling is being done on haul roads, loading and unloading point by using 4 no's mobile water sprinklers. 158 mtr length Fixed water sprinkler installed at Main Haul Road in Dhobil Mines
8.6	The Project Proponent shall undertake the dense plantation all along the haul roads and approach roads to attenuate the fugitive dust.	Plantation is carried out every year at low tree density areas within ML, all along the haul roads and approach roads.
9.1	The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance reports.	To create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) awareness program was organized at Vocational Training Center (VTC), Chiria in the month of March-2025. Photograph of awareness program is place at Annexure-15 .
10.1	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 implementation report of the above said condition shall be submitted to the Ministry's Regional Office.	Noted.

Ravi Ranjan
30/6/25

(Ravi Ranjan)

General Manager (Mining)
Manoharpur Ore Mines, Chiria



Annexure-1

Compliance Status of CTO for Dhobil Mining lease

S. No.	A. Specific Conditions:	Compliance Status
i	That, the over burden dump shall be made in accordance with conditions imposed in Environmental Clearance.	<p>Complied.</p> <p>The Over burden generated from mining operations is dumped in the dump yard demarcated in the approved mining plan and leveled properly. Terracing, drains have been formed around the dump to control surface runoff.</p>
ii	That, the occupier shall do mining in broken up area 29.411 hectares only and shall submit a copy of six monthly report regarding compliance of conditions imposed in Environmental Clearance to Regional Office, MOEF, Govt. of India, Ranchi under intimation to the Board Head Quarter.	<p>The Mining operation is being carried out within the broken area of 29.411 Ha as per the IBM Approved Mining Scheme.</p> <p>Six monthly Compliance Status is being submitted to the Ministry of Environment & Forests and Climate Change its Regional Office located at Ranchi.</p>
iii	That, the mining operation shall be restricted to above the ground water table and it should be not intersect the ground water table.	<p>Complied.</p> <p>Water table level at mining lease area is about 400 m AMSL and present working depth of the mine is 610 m AMSL and ultimate working depth of the mine is 592 m AMSL. Hence there is no intersecting of Mine workings with the ground water table.</p>
iv.	That, the top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The top soil shall be used for land reclamation and plantation.	<p>Complied.</p> <p>At present, the mining operations are being carried out within the existing broken area and hence no top soil is generated during this period.</p> <p>If any top soil encountered it will be stored separately and used for reclamation & plantation purpose.</p>
v.	That, the occupier shall do blasting operation only during the day time.	<p>1. Blasting is being done only in day time in specified time i.e. 4 – 4.30 PM.</p> <p>2 Controlled blasting with slurry explosives and NONEL detonators is being done to minimize ground vibrations and to arrest fly rocks & boulders.</p>
vi.	That, the occupier shall do sprinkling of water on haul road and dusty areas.	To minimize fugitive dust emissions Water spraying on haul roads, loading and unloading and at transfer points are being done regularly.



vii.	That, the occupier shall reclaim the mined out areas after mining activities and plantation shall be done at the reclaimed site.	At present, the mining operations are being carried out within the existing broken area and hence no reclamation activity is carried out. After the complete exploitation of ore within the existing broken area, reclamation and plantation activities will be undertaken as per the IBM approved Mine Closure Plan.
viii	That the transportation shall be done through covered vehicle to avoid fugitive dust emission.	All vehicles are covered with Tarpaulin cover to arrest the fugitive dust emission.
ix.	That, the occupier shall construct garland drain, setting tanks and check dams at appropriate places to prevent runoff water and flow of sediments into the HamsadagaarNalla the Koina river and other water bodies and submit photographs to the Board Head Quarter.	Retaining wall, garland drain and check dams are provided to prevent runoff water and flow of sediments into the Hamsadagara Nalla the Koina river and other water bodies.
x.	That, the occupier shall construct ETP for workshop.	Since 1998, the mine is operated through Composite Mining contractor and all the HEMM and equipment were deployed by the contractor. Most of maintenance jobs are done at their work shop at Rourkela/Manoharpur. However, vehicle washing facility with Oil, grease traps collection arrangement provided at Chiria for light vehicles.
xi	That, the occupier shall noise monitoring report to the board.	Noise monitoring report is being submitted to the board and the Ministry of Environment & Forests and Climate Change its Regional Office located at Ranchi along with the compliance report.
xii	That, the occupier shall submit photographs tree plantation , rain water harvesting water sprinkling system	Photographs of tree plantation, rain water harvesting water sprinkling system is being submitted to the board and the Ministry of Environment & Forests and Climate Change its Regional Office located at Ranchi along with the compliance report.
xiii	That the occupier shall submit applications for renewal of consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air Act, 1981 again 120 days prior to the date of expiry of this consent i.e. 08.03.2018 to 31.03.2022,	Noted.



	with requisite fee and documents showing compliance of all of the above conditions.	
xiv	This Consent to Operate (CTO) supersede previous CTO granted vide Ref No. JSPCB/HO/RNC/CTO-2010693/2018/486, Dated : 2018-03-09 valid upto 31.03.2022 and stands revised up to this extent.	Noted.
xv	That the occupier shall comply with all the conditions of Environmental Clearance (EC) ref No:J-11015/251/2009-IA.II(M),Dated:24.01.2012(With Amendments Dated:01.05.2012 and 19.04.2017)	Comply with all the conditions of Environmental Clearance (EC) ref No:J-11015/251/2009-IA.II(M), Dated:24.01.2012 (With Amendments Dated:01.05.2012 and 19.04.2017)

S. No.	B. General Conditions:					Compliance Status
1.	That, the occupier shall maintain the National Ambient Air Quality Standard given below:					<p>Complied.</p> <p>The ambient air quality is being regularly monitored and quality maintained within the prescribed standard</p>
	Sl. No	Pollutant	Time Weighted Average	Industrial Residential , Rural and Other Area	Connection in Ambient Air Ecologically sensitive Area (notified by Central Govt)	
	(1)	(2)	(3)	(4)	(5)	
	1	Sulphur Dioxide (SO ₂), µg/m ³	Annual 24 hour	50 80	20 80	
	2	Nitrogen Dioxide (NO ₂), µg/m ³	Annual 24 hour	40 80	30 80	
	3	Particulate Matter(size less than 10 µm) or PM _{2.5} , µg/m ³	Annual 24 hour	60 100	60 100	
	4	Particulate Matter(size less than 2.5 µm) or PM _{2.5} , µg/m ³	Annual 24 hour	40 60	40 60	
	5	Ozone(O ₃), µg/m ³	8 hours 1 hour	100 180	100 180	
	6	Lead (Pb) µg/m ³	Annual 24 hour	0.50 1.0	0.50 1.0	
	7	Carbon Monoxide (CO) mg/m ³	8 hours 1 hours	02 04	02 04	
	8	Ammonia (NH ₃) µg/m ³	Annual 24 hours	100 400	100 400	
	9	Benzene (C ₆ H ₆)	Annual	05	05	



		µg/m ³			
	10	Benzo(a) Pyrene (BaP) Particulate Phase only ng/m ³	Annual	01	01
	11	Arsenic (As) ng/m ³	Annual	06	06
	12	Nikel (Ni) ng/m ³	Annual	20	20
Note: Serial No. 1 to 4 – Mandatory Serial no. 5 to 12 As applicable for specific type of industry.					
2.	That the occupier shall maintain the emission Quality within the standard and the quantity, as follows.				Complied. The emission Quality maintained within the standard.
	S N	Parameter	Standard		
	1	Particulate Matter	100 mg/ Nm ³		
3.	That, the occupier shall keep process effluent in close-circuit and the quality of effluent from other sources in conformity with the standard(s) and the discharge quantity as below:				The effluent discharge quality is being maintained within the prescribed standard.
	S N	Parameter	Standard		
	1	Total Suspended Solids	100 mg/L		
	2	BOD	30 mg/L		
	3	COD	250 mg/L		
	4	Oil & Grease	10 mg/L		
4.	That the occupier shall dispose of solid wastes as follows:				The main solid waste generated from mining operations is OB & Waste which is dumped in the yard demarcated in the approved mining plan and leveled properly. To control surface runoff Terracing has been done around the dump. The quantity of used oil and batteries is very negligible. However used oil stored temporarily stored in sealed drums for auction to registered recycler.
	Sl. No	Waste Type	Mode of Disposal		
	1	Hazardous Carbonaceous Wastes	In Co-processing in high temp. furnaces or kilns		
	2	Hazardous Non-Carbonaceous Wastes	In TSDF		
	3	Non—Carbonaceous Non-Hazardous solid wastes/Mine Over Burden	As a substitute of Soil or Mineral		
5.	That the occupier shall keep D.G Sets (s) within acoustic enclosure (s) and shall keep the height (s) of exhaust pipes (s) as per Central Pollution Control Board norm.				Complied.













6.	That the occupier shall create and maintain Central Ground Water Board/State Ground Water Directorate approved \ system of rain water harvesting-cum-ground water recharge and submit the photographic view of the structures within a month.	<p>As the mine pits are located at the hill top, all the surface runoff from the mining areas have been diverted to mine pits, from where it seeps in to the ground.</p> <p>Rooftop rainwater harvesting system provided for Guest House& General Office at Chiria. Provided counter bunds across Nallahs, Trenches in plantation areas.</p> <p>Three rainwater harvesting ponds have been provided at Mines Area, General Office, Chiria and Manoharpur Railway Siding Area.</p>																				
7.	That, the occupier shall grow and maintain greenery of the project in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.	<p>Complied.</p> <p>Plantation is being carried out every year at low tree density of areas, road sides etc. Details of year wise afforestation during last seven years are as follows:</p> <table><tr><th>Year</th><th>No of saplings</th></tr><tr><td>2024-25</td><td>1000</td></tr><tr><td>2023-24</td><td>800</td></tr><tr><td>2022-23</td><td>1465</td></tr><tr><td>2021-22</td><td>660</td></tr><tr><td>2020-21</td><td>650</td></tr><tr><td>2019-20</td><td>1100</td></tr><tr><td>2018-19</td><td>600</td></tr><tr><td>2017-18</td><td>600</td></tr><tr><td>2016-17</td><td>600</td></tr></table> <p>The Existing mining operation is being carried out within 29.411 ha area out of the total lease hold area of 513.036 ha. However, 35.87 ha area was covered for green belt development. Out of which 5.88 ha plantation area is within the mining lease and 29.97 ha of plantation area is outside the lease hold area.</p>	Year	No of saplings	2024-25	1000	2023-24	800	2022-23	1465	2021-22	660	2020-21	650	2019-20	1100	2018-19	600	2017-18	600	2016-17	600
Year	No of saplings																					
2024-25	1000																					
2023-24	800																					
2022-23	1465																					
2021-22	660																					
2020-21	650																					
2019-20	1100																					
2018-19	600																					
2017-18	600																					
2016-17	600																					
8.	That, the occupier shall submit environmental; statement with supporting stoichiometric calculations analyses reports, every year latest by 30 th September of the next financial year.	<p>Environmental Statement for the financial year 2024-25 ending 31st March, 2025 has been submitted to the Jharkhand State Pollution Control Board</p>																				



		vide reference No: MOM/PC/6/286, dated: 03-05-2025.
9.	That the occupier shall submit report(s) duly monitored and issued by an NABL accredited/ISO 9001:2008 and OHSAS 18001:2007 certified laboratory in compliance sub-para (2), (3), (4) and (5) of paragraph 3 of this CTO yearly at required periodicity.	Complied. Regular monitoring of the desired parameters is being done by JSPCB or its authorized agencies.
10.	That, this CTO is valid subjected to the validity of mining Lease/Mining Plan/ecofriendly/Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.	Noted.
11.	That, this CTO is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under another law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time- being in force, rests with the industry/unit/occupier.	Noted.
12.	That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be, instituted against you by the State Board for violation or the provisions of the Act or the Rules made there under.	Noted
13.	That, the occupier shall comply with all applicable provisions of the water (Prevention & Control of Pollution Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (prevention and Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules made there under.	Noted



Annexure – 2

		
Retaining wall at Waste Dump-1		
		
Garland Drain & Silting pond at Waste Dump-1		
		
Retaining wall at Waste Dump-2		
		
Garland Drain & Silting pond at Waste Dump-2		



Annexure – 2





Annexure – 2

Photographs of Check Dams constructed across the Seasonal Nalla of Dhobil Mines-

 <p>Latitude: 22.261801 Longitude: 85.270574 Elevation: 580.623 m Accuracy: 3.0 m Azimuth: 267° (W) Pitch: 21.4° (2.9°) Time: 22-04-2024 11:48 Note: ID Card</p>	 <p>Latitude: 22.261901 Longitude: 85.270458 Elevation: 577.8443 m Accuracy: 3.0 m Azimuth: 178° (S) Pitch: 7.6° Time: 22-04-2024 11:47 Note: ID Card</p>
Check Dam No-1 (Top View)	Check Dam No-1 (Side View)
 <p>Latitude: 22.260607 Longitude: 85.269662 Elevation: 587.014 m Accuracy: 3.9 m Azimuth: 312° (NW) Pitch: 19.9° (2.6°) Time: 22-04-2024 11:59 Note: ID Card</p>	 <p>Latitude: 22.260761 Longitude: 85.269665 Elevation: 586.4344 m Accuracy: 10.0 m Azimuth: 212° (SW) Pitch: 9.3° Time: 22-04-2024 11:54 Note: ID Card</p>
Check Dam No-2 (Top View)	Check Dam No-2 (Side View)
 <p>Latitude: 22.259866 Longitude: 85.268463 Elevation: 576.9286 m Accuracy: 3.2 m Azimuth: 179° (S) Pitch: 22.2° Time: 22-04-2024 12:08 Note: ID Card</p>	 <p>Latitude: 22.2597 Longitude: 85.268592 Elevation: 576.7943 m Accuracy: 3.7 m Azimuth: 267° (W) Pitch: 3.8° (2.2°) Time: 22-04-2024 12:04 Note: ID Card</p>
Check Dam No-3 (Top View)	Check Dam No-3 (Side View)



Annexure-3



Fencing provided at around the Quarry



Annexure – 4

Photographs showing the Plantation during 2024-25 at MOM, Chiria**Plantation during 2024-25 at Waste Dump No 1 & 2****Dump stabilization through Geo Coir Textile at Waste Dump-2**



Photographs showing the Plantation at MOM, Chiria

Plantation at General Office, Chiria	
Plantation at General Office, Chiria	Plantation Near Rabindar Bhawan, Chiria
Plantation at Transport Road	Plantation at Vacant areas

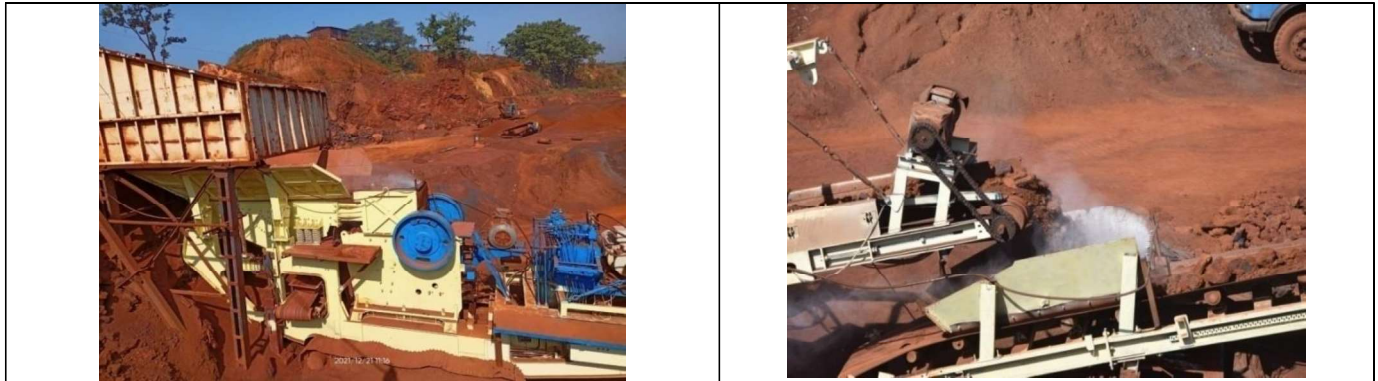


Annexure-5

Water sprinkling arrangements**Fixed water sprinkler at Main Haul Road, Dhobil Mines**

Transportation Road

Haul Road



Crushing & Screening Plant at Dhobil Lease



Trucks Covered with Tarpaulin Sheet during transportation



Water sprinkling system at Railway Siding Area by fixed water pipe line



Water sprinkling at Railway Siding Area

Annexure-6

INSTALLATION OF 5KLD STP & 5KLD ETP AT SAIL Chiria Hospital**5KLD STP & 5KLD ETP at SAIL Chiria Hospital**



Annexure-7

GROUND WATER LEVEL MEASUREMENTS**A. Ground Water levels in and around the Mines**

Location ID	Location of Open Wells	Water level below the Ground Surface (in meters)	
		During Post Monsoon	During Winter
G1	Adjacent to community center at Anqua	6.15	6.30
G2	Opposite to community center at Anqua	6.30	6.40
G3	Near Anqua Model Steel Village Gate	1.90	2.10
G4	Siva Mandir	3.25	3.35
G5	Near CNI Church	7.95	8.00
G6	Near BisraChowk	1.70	1.80

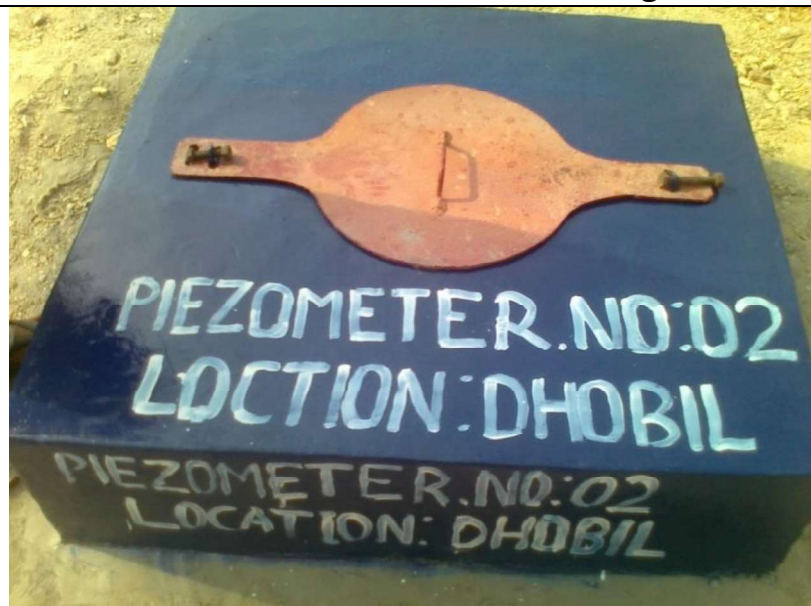
Sl. No.	Location of Piezometer	Water level below the Ground Surface (in meters)	
		During Post Monsoon	During Winter
1	Chiria Village	4.10	3.95
2	Dhobil Village	3.70	3.60



Annexure-7



Piezometer at Chiria Village



Piezometer at Dhobil Village



Annexure-8

WATER QUALITY OF HAMSADAGARA NALLA
(Period: October-2024 to March-2025)

Location - Upstream of Hamsadagara Nalla									
S. No.	Parameter	Unit	Standards as per IS: 2296-1982	OCT	NOV	DEC	JAN	FEB	MAR
1	pH(at 25°C)	-	6.5 - 8.5	6.69	6.77	7.43	7.52	7.28	7.34
2	Temperature	°C	-	25.10	24.90	23.30	24.10	23.60	24.90
3	Turbidity	NTU	-	32.40	29.80	11.80	12.40	10.90	12.40
4	Colour	Hazen	300	24.0	21.20	16.20	14.50	13.40	15.20
5	DO	mg/L	4(min)	7.20	6.90	6.50	6.70	6.90	6.70
6	BOD(@20°C for 5 days)	mg/L	3.0	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:1.0)
7	Total Hardness (as CaCO ₃)	mg/L	-	83.60	86.40	72.70	76.70	78.30	86.20
8	TDS	mg/L	1500	178.00	185.00	168.00	173.00	166.00	178.00
9	TSS	mg/L	-	43.80	45.20	36.80	38.50	28.80	30.20
10	Iron	mg/L	50	0.430	0.424	0.112	0.123	0.072	0.176

Location -Downstream of Hamsadagara Nalla									
S. No.	Parameter	Unit	Standards as per IS: 2296-1982	OCT	NOV	DEC	JAN	FEB	MAR
1	pH(at 25°C)	-	6.5 - 8.5	6.86	6.92	7.54	7.57	7.32	7.45
2	Temperature	°C	-	24.90	25.00	23.50	24.30	23.80	25.00
3	Turbidity	NTU	-	2.96	3.16	1.11	1.36	2.40	3.50
4	Colour	Hazen	300	14.00	16.30	10.40	11.70	10.90	11.80
5	DO	mg/L	4(min)	6.90	6.80	6.60	6.80	6.70	6.80
6	BOD(@ 20°C for 5 days)	mg/L	3.0	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:1.0)
7	Total Hardness (as CaCO ₃)	mg/L	-	58.30	63.00	53.60	58.00	74.20	82.30
8	TDS	mg/L	1500	144.00	152.00	143.00	155.00	165.00	181.00
9	TSS	mg/L	-	15.80	18.40	16.60	17.80	12.20	14.60
10	Iron	mg/L	50	0.116	0.124	0.102	0.121	0.087	0.16



Annexure – 9

**Roof top Rain Water Harvesting at Chiria Guest House****Rain Water Harvesting Pond in Dhobil Lease**



Rain Water Harvesting Pond at General Office, Chiria



Rain Water Harvesting Pond at Railway siding



Annexure-10

Dhobil ore mining lease area land use and land cover:

Dhobil ore mining lease area (513.036 ha) is also classified into the six classes. The distribution of area is dense forest (338.593 ha), open forest (49.898 ha), mining area (27.454 ha), water body (0.10 ha), agricultural land/ open scrubland (43.029 ha), wasteland (53.419 ha) and built-up land (0.543 ha) shown in Figure-1.

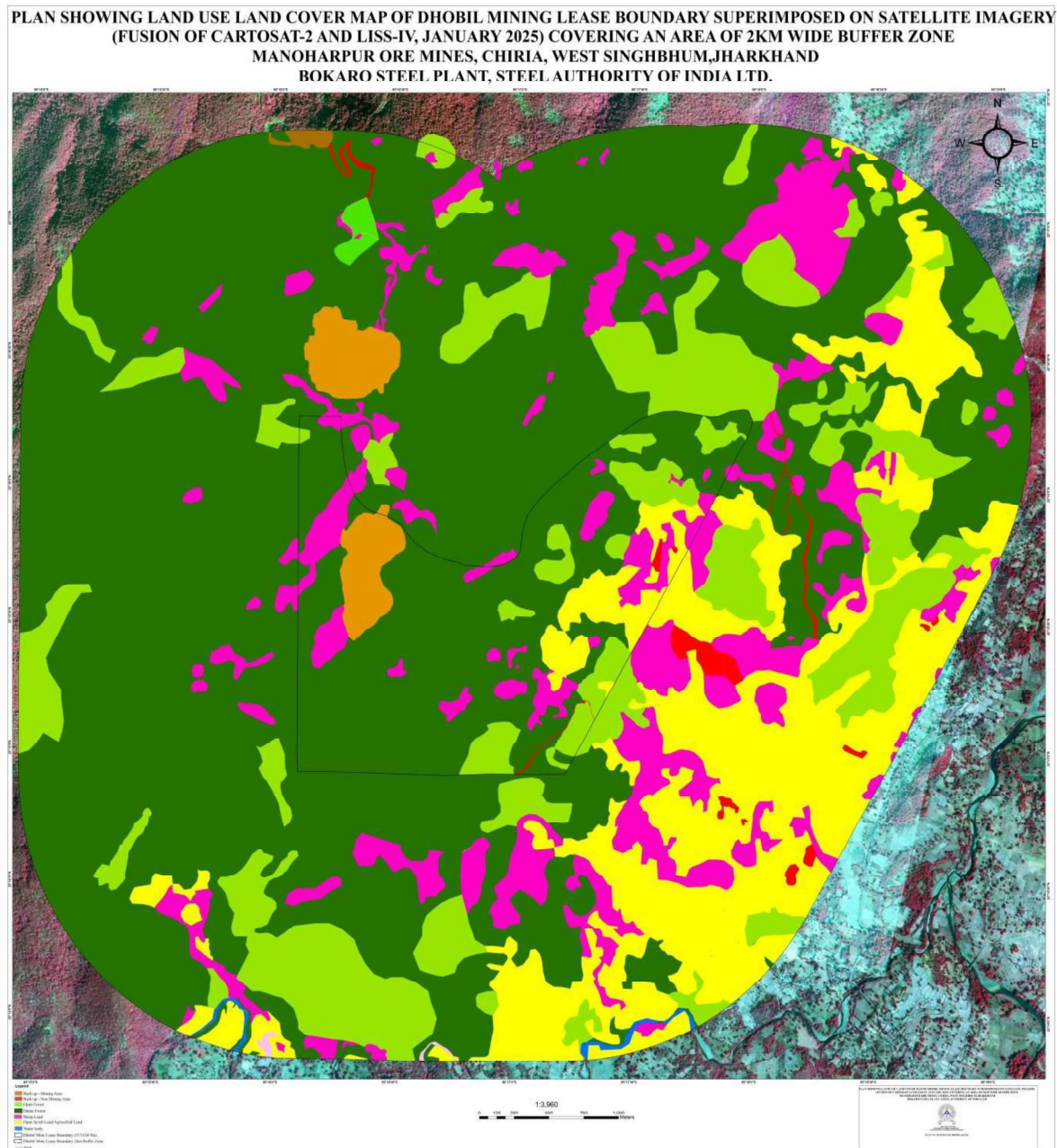


Figure 1 : Land use Land cover map of Dhobil ore mining lease area



Accuracy assessment was carried out using field data, existing maps and land cover map of (Bhuvan ISRO). Then location of the field points was chosen using random stratified method to represent different land cover classes of the area. The land cover mapping of the images, ancillary data and the result of visual interpretation was integrated with the classification result using GIS in order to improve the classification accuracy of the classified image.

The classification distributions are shown below:-.

S. No.	LU/LC	Dhobil Mine lease (in Ha)
1.	Built-up Land	0.543
2.	Agriculture/Scrub Land	43.029
3.	Dense forest	338.593
4.	Open Forest	49.898
5.	Water body	0.100
6.	Waste land	53.419
7.	Mining	27.454
8.	Total Area (ha)	513.036

Dhobil mining lease Area_2025 (Ha)

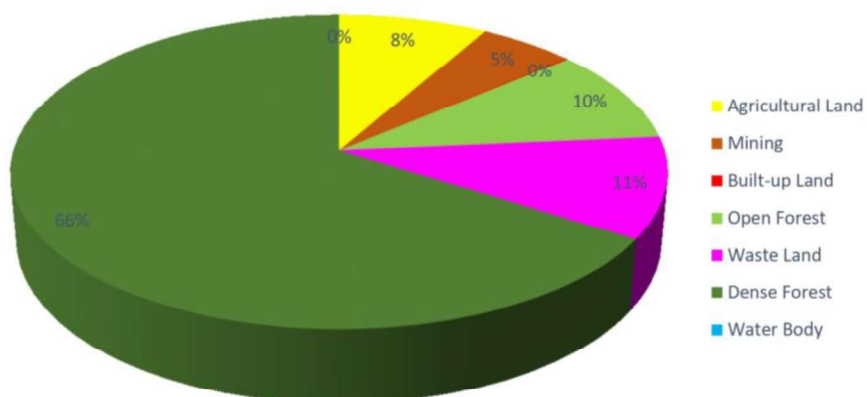


Figure 2 : Land use distribution of Dhobil lease area



Annexure-11

Photograph of Electronic Display board**Front view****Rear view**



Annexure- 11

AMBIENT AIR QUALITY**(Period: October-2024 to March-2025)**

S. No.	Sampling Period	PM10 ($\mu\text{g}/\text{m}^3$)					
	Location	OCT	NOV	DEC	JAN	FEB	MAR
1	Dhobil Mine Entry Point	60.10	75.40	69.90	74.70	74.90	76.10
2	Dhobil Village	56.30	67.00	66.20	67.50	65.10	68.60
3	Chiria Hospital	52.00	61.60	65.50	65.60	62.70	66.00
Norm as per NAAQS		100 $\mu\text{g}/\text{m}^3$					

S. No.	Sampling Period	PM2.5($\mu\text{g}/\text{m}^3$)					
	Location	OCT	NOV	DEC	JAN	FEB	MAR
1	Dhobil Mine Entry Point	30.50	45.00	40.70	42.40	42.30	40.40
2	Dhobil Village	26.20	39.00	35.00	35.10	32.80	28.30
3	Chiria Hospital	27.70	34.10	34.40	33.90	31.30	33.30
Norm as per NAAQS		60 $\mu\text{g}/\text{m}^3$					

S. No.	Sampling Period	SO ₂ ($\mu\text{g}/\text{m}^3$)					
	Location	OCT	NOV	DEC	JAN	FEB	MAR
1	Dhobil Mine Entry Point	10.20	13.80	13.10	14.00	12.50	12.80
2	Dhobil Village	10.70	11.00	12.10	11.20	11.90	11.80
3	Chiria Hospital	7.90	9.10	10.20	10.80	11.80	11.00
Norm as per NAAQS		80 $\mu\text{g}/\text{m}^3$					

S. No.	Sampling Period	NO ₂ ($\mu\text{g}/\text{m}^3$)					
	Location	OCT	NOV	DEC	JAN	FEB	MAR
1	Dhobil Mine Entry Point	23.20	29.50	29.40	32.10	29.00	31.30
2	Dhobil Village	21.80	22.90	30.00	27.90	23.00	24.00
3	Chiria Hospital	21.10	19.30	20.80	22.70	23.10	22.70
Norm as per NAAQS		80 $\mu\text{g}/\text{m}^3$					



Annexure-12

Continuous Ambient Air Quality Monitoring System (CAAQMS) at Manoharpur Railway Siding.





Annexure- 12

VASTHI ENVIRO

Industry: MANOHARPUR ORE MINES SIDING,

Industry Code:

Industry Category: MINING

Industry Type: Ambient

Station : RAILWAY_SIDING

P S-MANOHARPUR,Jharkhand

Mauza- MANOHARPUR,P S-MANOHARPUR

WEST SINGHBHUM

	RAILWAY_SIDING(PM10)
Range	0-10000
Unit	µg/m ³
Limit	NA
Min	36.66
Max	62.42
Avg	48.14

SL	Datetime	RAILWAY_SIDING(PM10)
1	2025-03-01 00:00:00	44.225733
2	2025-03-02 00:00:00	46.581061
3	2025-03-03 00:00:00	49.335018
4	2025-03-04 00:00:00	47.219831
5	2025-03-05 00:00:00	52.579824
6	2025-03-06 00:00:00	47.689832
7	2025-03-07 00:00:00	54.924085
8	2025-03-08 00:00:00	40.041132
9	2025-03-09 00:00:00	45.565681
10	2025-03-10 00:00:00	52.639635
11	2025-03-11 00:00:00	55.076104
12	2025-03-12 00:00:00	50.045946
13	2025-03-13 00:00:00	48.764828
14	2025-03-14 00:00:00	44.510983



Annexure- 12

VASTHI ENVIRO

Industry: MANOHARPUR ORE MINES SIDING,

Industry Code:

Industry Category: MINING

Industry Type: Ambient

Station : RAILWAY_SIDING

P S-MANOHARPUR, Jharkhand

Mauza- MANOHARPUR, P S-MANOHARPUR
WEST SINGHBHUM

SL	Datetime	RAILWAY_SIDING(PM10)
15	2025-03-15 00:00:00	50.184272
16	2025-03-16 00:00:00	46.525573
17	2025-03-17 00:00:00	52.599734
18	2025-03-18 00:00:00	42.898509
19	2025-03-19 00:00:00	47.81427
20	2025-03-20 00:00:00	36.66175
21	2025-03-21 00:00:00	50.736722
22	2025-03-22 00:00:00	40.270301
23	2025-03-23 00:00:00	43.827915
24	2025-03-24 00:00:00	53.565897
25	2025-03-25 00:00:00	51.928675
26	2025-03-26 00:00:00	39.526447
27	2025-03-27 00:00:00	45.59124
28	2025-03-28 00:00:00	46.893303
29	2025-03-29 00:00:00	45.41139
30	2025-03-30 00:00:00	56.224021
31	2025-03-31 00:00:00	62.419998



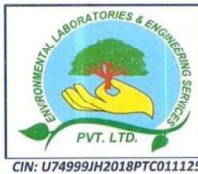
Annexure- 13

NOISE QUALITY REPORT
(Period: October-2024 to March-2025)

S. No.	Sampling Location	Regulatory Limit (in day time) {dB(A)}	Regulatory Limit (in night time) {dB(A)}	Observed Noise level in Leq {dB(A)}			
				Oct to Dec		Jan to Mar	
				Day Time	Night Time	Day Time	Night Time
1	Dhobil Mines	75	70	70.8	56.3	70.3	56.1
2	Dhobil Mobile Crushing & Screening Plant	75	70	74.3	61.5	73.7	62.5
3	Sukri ML Junction	75	70	69.1	55.7	67.1	58.7
4	Gindung Village	75	70	68.1	54.9	64.8	51.4
5	Manoharpur Railway Siding	75	70	68.3	64.4	68.2	57.6
6	Patharbasa	75	70	61.7	50.7	63.5	50.2
7	General Office	75	70	64.5	49.2	63.1	48.7
8	Dhobil Village	55	45	59.4	44.1	52.7	44.4
9	Chiria Hospital	55	45	49.1	39.3	48.4	38.9



Annexure –14

FUGITIVE AIR QUALITY REPORT
ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT. LTD.

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)
GST NO:- 20AAECE9713D1Z4

Email: info@elespl.co.in, eles.ranchi@gmail.com

Phone no.: 0651-2290103

Website : www.elespl.co.in



CIN: U74999JH2018PTC011125

TEST REPORT

Test Report No. : ELES/RNC/2025/1897	Report Release Date : 21.03.2025
Work Order No. : MOM/CC/WO/2023-24/50	Work Order Date : 14.03.2024
ULR No. : TC1358725000001856F	Schedule : Monthly (March'25)

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Manoharpur Ore Mines, Chiria	Sample Ref. No.	: ELES/RNC/2025/FA/2116
Address	: At- Chiria, PO- Chiria, Dist- West Singhbhum, Jharkhand- 833106	Location	: Manoharpur Railway Siding
Plant Status	: Operational	Sampling Date	: 16.03.2025
Period of Analysis	: 17.03.2025 to 21.03.2025	Sample Received Date	: 17.03.2025
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C) : 32	2	Barometric Pressure (mmHg) : 744
3	Relative Humidity (%) : 61	4	Weather Condition : Clear

Discipline : Chemical		Group : Atmospheric Pollution	
Parameter	Unit	Test Protocol	Result
Suspended Particulate Matter (SPM)	µg/m ³	IS 5182 (Part-4): 2019	163.2
Sulphur Di- Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2/Sec1): 2023	13.7
Nitrogen Di- Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6): 2022	25.1



Reviewed by

****End of Report****

Akash Kumar
Authorised Signatory
Akash Kumar
Quality Manager

Page 1 of 1

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CIN: U74999JH2018PTC011125

TC-13587

TEST REPORT

Test Report No.	: ELES/RNC/2025/1895	Report Release Date	: 21.03.2025
Work Order No.	: MOM/CC/VO/2023-24/50	Work Order Date	: 14.03.2024
ULR No.	: TC1358725000001854F	Schedule	: Monthly (March'25)

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Manoharpur Ore Mines, Chiria	Sample Ref. No.	: ELES/RNC/2025/FA/2114
Address	: At- Chiria, PO- Chiria, Dist- West Singhbhum, Jharkhand- 833106	Location	: Bachangutta
Plant Status	: Operational	Sampling Date	: 16.03.2025
Period of Analysis	: 17.03.2025 to 21.03.2025	Sample Received Date	: 17.03.2025
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 32	2	Barometric Pressure (mmHg)	: 744
3	Relative Humidity (%)	: 61	4	Weather Condition	: Clear

Discipline : Chemical		Group : Atmospheric Pollution	
Parameter	Unit	Test Protocol	Result
Suspended Particulate Matter (SPM)	µg/m ³	IS 5182 (Part-4): 2019	144.7
Sulphur Di- Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2/Sec1): 2023	7.4
Nitrogen Di- Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6): 2022	23.3



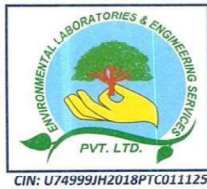
****End of Report****

Akash Kumar
Authorised Signatory
Akash Kumar
Quality Manager

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CIN: U74999JH2018PTC011125

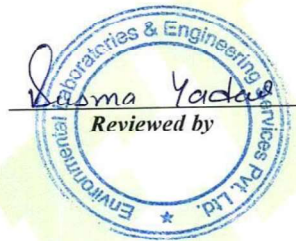
TEST REPORT

Test Report No.	: ELES/RNC/2025/1894	Report Release Date	: 21.03.2025
Work Order No.	: MOM/CC/WO/2023-24/50	Work Order Date	: 14.03.2024
ULR No.	: TC1358725000001853F	Schedule	: Monthly (March'25)

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Manoharpur Ore Mines, Chiria	Sample Ref. No.	: ELES/RNC/2025/FA/2113
Address	: At- Chiria, PO- Chiria, Dist- West Singhbhum, Jharkhand- 833106	Location	: Sukri ML Junction
Plant Status	: Operational	Sampling Date	: 16.03.2025
Period of Analysis	: 17.03.2025 to 21.03.2025	Sample Received Date	: 17.03.2025
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 32	2	Barometric Pressure (mmHg)	: 744
3	Relative Humidity (%)	: 61	4	Weather Condition	: Clear

Discipline : Chemical		Group : Atmospheric Pollution	
Parameter	Unit	Test Protocol	Result
Suspended Particulate Matter (SPM)	µg/m ³	IS 5182 (Part-4): 2019	203.4
Sulphur Di- Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2/Sec1): 2023	9.8
Nitrogen Di- Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6): 2022	28.6



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TEST REPORT

Test Report No.	: ELES/RNC/2025/1563	Report Release Date	: 12.03.2025
Work Order No.	: MOM/CC/WO/2023-24/50	Work Order Date	: 14.03.2024
ULR No.	: TC1358725000001534F	Schedule	: Monthly (March'25)

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Manoharpur Ore Mines, Chiria	Sample Ref. No.	: ELES/RNC/2025/FA/1713
Address	: At- Chiria, PO- Chiria, Dist- West Singhbhum, Jharkhand- 833106	Location	: Dhobil Mines Haul Road
Plant Status	: Operational	Sampling Date	: 06.03.2025
Period of Analysis	: 07.03.2025 to 12.03.2025	Sample Received Date	: 07.03.2025
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C) : 27			2	Barometric Pressure (mmHg) : 744
3	Relative Humidity (%) : 58			4	Weather Condition : Clear

Discipline : Chemical		Group : Atmospheric Pollution	
Parameter	Unit	Test Protocol	Result
Suspended Particulate Matter (SPM)	µg/m ³	IS 5182 (Part-4): 2019	189.3
Sulphur Di- Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2/Sec1): 2023	11.6
Nitrogen Di- Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6): 2022	22.2



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Akash Kumar
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TC-13587

TEST REPORT

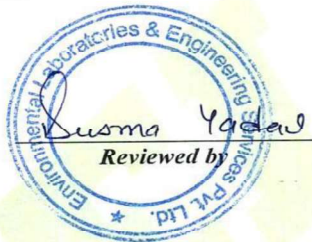
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Work Order No.	: MOM/CC/VO/2023-24/50	Work Order Date	: 14.03.2024
ULR No.	: TC1358725000001533F	Schedule	: Monthly (March'25)

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Manoharpur Ore Mines, Chiria	Sample Ref. No.	: ELES/RNC/2025/FA/1712
Address	: At- Chiria, PO- Chiria, Dist- West Singhbhum, Jharkhand- 833106	Location	: Waste Dump
Plant Status	: Operational	Sampling Date	: 06.03.2025
Period of Analysis	: 07.03.2025 to 12.03.2025	Sample Received Date	: 07.03.2025
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 27	2	Barometric Pressure (mmHg)	: 744
3	Relative Humidity (%)	: 58	4	Weather Condition	: Clear

Discipline : Chemical		Group : Atmospheric Pollution	
Parameter	Unit	Test Protocol	Result
Suspended Particulate Matter (SPM)	µg/m ³	IS 5182 (Part-4): 2019	222.4
Sulphur Di- Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2/Sec1): 2023	13.3
Nitrogen Di- Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6): 2022	24.7



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Akash Kumar
Quality Manager

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Website : www.elespl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/1561	Report Release Date	: 12.03.2025
Work Order No.	: MOM/CC/VO/2023-24/50	Work Order Date	: 14.03.2024
ULR No.	: TC1358725000001532F	Schedule	: Monthly (March'25)

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Manoharpur Ore Mines, Chiria	Sample Ref. No.	: ELES/RNC/2025/FA/1711
Address	: At- Chiria, PO- Chiria, Dist- West Singhbhum, Jharkhand- 833106	Location	: Mobil Crushing & Screening Plant
Plant Status	: Operational	Sampling Date	: 06.03.2025
Period of Analysis	: 07.03.2025 to 12.03.2025	Sample Received Date	: 07.03.2025
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 27	2	Barometric Pressure (mmHg)	: 744
3	Relative Humidity (%)	: 58	4	Weather Condition	: Clear

Discipline : Chemical		Group : Atmospheric Pollution	
Parameter	Unit	Test Protocol	Result
Suspended Particulate Matter (SPM)	µg/m ³	IS 5182 (Part-4): 2019	312.3
Sulphur Di- Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2/Sec1): 2023	16.8
Nitrogen Di- Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6): 2022	30.9



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Akash Kumar
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Akash Kumar
Quality Manager

Page 1 of 1

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Annexure – 15

Photographs of Ban of Single Use Plastic (SUP) awareness program conducted on 08.03.2025 at VTC, Chiria