



**SREE
METALIKS
LIMITED**

Ref. No.: SML-KIOM/MoEF/2021-2022/350

Date: 20-11-21

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

Sub: **Half-yearly Environmental Clearance Compliance Report of Khandbandh Iron Ore Mining Project of M/s. Sree Metaliks Ltd. for the period April to September 2021- Reg.**

Ref: 1. SEIAA Clearance letter no. SEIAA/362, dated. 06.09.2010
2. MoEF&CC notification no. 4624 (Gazette of India notification) dt. 26.11.2018

Dear Sir,

With reference to the above-cited subject and gazette notification, we are herewith sending the six-monthly compliance report in soft copy by Email i.e. roez.bsr-mef@nic.in & seiaaorissa@gmail.com, and also uploading the same in our company website i.e. <https://sreemetaliks.com/> with comprehensive data analysis reports (supporting photographs and monitoring reports) for the period **April to September 2021** in respect of Khandbandh Iron Ore Mining Project of M/s. Sree Metaliks Ltd.

Thanking you,

Yours sincerely,

Khandbandh Iron Ore Mines
M/s. Sree Metaliks Ltd.

Mines Manager

Encl. As above

CIN : U26939WB1995PLC075633

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

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Copy to:

1. The Director (S), Integrated Regional Office (IRO), Ministry of Environment, Forest & Climate Change, A-31, Chandrasekharapur, Bhubaneswar, Email - roez.bsr-mef@nic.in
2. The Chairman, State Pollution Control Board, Orissa, A/118, Nilakantha Nagar, Unit – VIII, Bhubaneswar – 751012, Email - paribesh1@ospccboard.org
3. The Regional Director, Central Ground Water Board, Government of India, South Eastern Region, Bhubaneswar – 751030, Email: rdser-cgwb@nic.in

Six Monthly EC Compliance Report

Period:

April to September 2021

Environment Clearance Letter no.:

SEIAA/362, dated. 06.09.2010



Khandbandh Iron Ore Mines

M/s. Sree Metaliks Ltd.

Khanbandh, Joda, Keonjhar, Odisha

www.sreemetaliks.com

STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar

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SL. NO	SPECIFIC CONDITIONS	STATUS AS ON DATE / ACTION TAKEN
I	The applicant (Project Proponent) will take necessary measures for prevention, control, and mitigation of Air Pollution, water pollution, noise pollution, and land pollution including solid waste management as mentioned by him in form-I, final EIA reports, and Environment Management Plan (EMP) in compliance with prescribed statutory norms and standards.	<p>The project is taking care of necessary environmental protection measures for prevention, control, and mitigation of Air Pollution, water pollution, noise pollution, and land pollution including solid waste management in compliance with prescribed statutory norms and standards. The details of the same are mentioned in table no. # 1.</p> <p>The photographs witness the same i.e. dust suppression by water tankers, plantation, settling pits, retaining wall, etc. Enclosed as Photos # 1 & 2.</p>
II	The applicant will take necessary steps for the socio-economic development of the people of the area on need-based assessment for providing employment, education, health care, drinking water and sanitation, road and communication facilities. After a detailed primary Socio-Economic survey.	<p>The project has already undertaken the socio-economic development study of the people by carrying out a need-based assessment with the provision of employment, education, health care, drinking water and sanitation, road and communication facilities. The report of the same is enclosed as Annexure # 1.</p>
III	The applicant will comply with the points, concerns, and issues raised by the people during the public hearing on 18th February 2009 in accordance with the commitments made by him thereon.	<p>The project has compiled all the points concerns & issues raised by the people during public hearings during the operation of the ML area.</p> <p>The detailed point-wise compliance of same is mentioned in Table no. # 2.</p>
IV	The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.	<p>The project has obtained necessary statutory clearances/ approval/ permissions from the concerned authorities i.e. Lease Deed from Govt. of Odisha, Mining Plan from IBM, Forest Clearance from MOEFCC, Consent to establish & Operate from SPCB, etc. However, we will also follow the same as and when required.</p>

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V	<p>For post environmental clearance monitoring, the applicant will submit a half-yearly compliance report in respect of the stipulated terms and conditions of Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Orissa on 1st June and 1st December of each calendar year.</p>	<p>The project is submitting half yearly compliance report to SEIAA, Orissa as well as the Integrated Regional Office (IRO) of MOEF&CC, Bhubaneswar on 1st June and 1st December of each calendar year. The details are mentioned in Table no. # 3.</p>																		
VI	<p>The core zone should be monitored intensively with the number. Of stations, as prescribed by CPCB, Delhi and unit of pollutant level should be expressed as NAAQ standards of CPCB, Delhi. The detailed methodology adopted for the analysis of samples shall be clearly indicated and should be in accordance with NAAQs.</p>	<p>The project has already established 4 no. of AAQ monitoring station in the core and 4 no. AAQ monitoring station in the buffer zone for monitoring of the AAQ as per NAAQs notifications made by the CPCB and the project is also adopting the analysis of sample as cleared indicated in the NAAQs.</p> <table border="1" data-bbox="799 1070 1390 1364"> <thead> <tr> <th>Sl. No</th> <th>Pollutant</th> <th>Method of Measurement</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SO₂</td> <td>Ultraviolet Fluorescence</td> </tr> <tr> <td>2</td> <td>NO₂</td> <td>Chemiluminescence</td> </tr> <tr> <td>3</td> <td>SPM(PM₁₀)</td> <td>Gravimetric</td> </tr> <tr> <td>4</td> <td>SPM(PM_{2.5})</td> <td>Gravimetric</td> </tr> <tr> <td>5</td> <td>CO</td> <td>CO monitor</td> </tr> </tbody> </table>	Sl. No	Pollutant	Method of Measurement	1	SO ₂	Ultraviolet Fluorescence	2	NO ₂	Chemiluminescence	3	SPM(PM ₁₀)	Gravimetric	4	SPM(PM _{2.5})	Gravimetric	5	CO	CO monitor
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VII	<p>The proponent shall submit ground-toothling baseline data on flora & fauna and CSR activities already carried out within three months to the SEIAA.</p>	<p>The proponent has already carried the ground toothling baseline data on flora & fauna and CSR activities by engaging AISD, Ranchi.</p>																		
VIII	<p>An adequate buffer zone shall be maintained between two consecutive mineral-bearing deposits.</p>	<p>An adequate buffer zone between two consecutive minerals bearing deposits is being carried as per the approved mining plan/scheme duly approved by IBM. However, presently there is only one mines pit in operation.</p>																		

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IX	Zero waste mining concept shall be implemented either by putting up palletization plant or disposing-off low-grade ores/fines to the prospective buyers	The project is ensuring to adopt the Zero Wastes Mining Concept as per the approved mining plan. However, the mine is granted under captive category and the total generated quantity is being used in its respective plants.
X	The following shall be implemented viz. (a) dump runoff should be diverted into setting ponds until it is clear (b) adequate rainwater harvesting and groundwater recharging facilities should be adapted in the core zone, (c) attempt should be made to achieve zero water balance.	<p>The project has adopted the following;</p> <p>a) Dump runoff generated during the rainy season is being diverted to the Settling Pits and also to the mines pit for percolation. Photo enclosed as Photo # 3.</p> <p>b) Adequate rainwater harvesting structures are provided for groundwater recharge purposes with the implementation of Garland drains, Settling pits, Trenches, etc. at the strategic locations. Photo enclosed as Photo # 3.</p> <p>c) Further, the project proponent has also implemented the rooftop rainwater harvesting measures at their residential camp areas for augmentation and recharge of the groundwater table of the buffer zone area. Supporting photo enclosed as Photo # 3.</p>
XI	Maintenance of roads through which transportation of ores is undertaken shall be carried by the project proponent regularly at his own cost.	The project is ensuring and maintaining the transportation roads on regular basis by engaging graders and further by water sprinkling on the same roads. Photo enclosed as Photo # 4.

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XII	Fugitive dust generation shall be controlled and regularly monitored at locations of nearest human habitation (including schools and other public amenities located nearest to sources of dust generation as applicable) and records shall be submitted to the SEIAA, Orissa annually.	The project is carrying the fugitive dust monitoring regularly based on the criteria laid by the SPCB and the monitoring reports are being submitted on regular basis to SEIAA. The results reveal that all the parameters are very well within the prescribed norms. The test report of the same is enclosed as Annexure # 2.
XIII	Transportation of ore shall be done by covering the trucks with tarpaulin or other suitable mechanisms so that no spillage of ore /dust takes place.	The project is ensuring that the trucks are not being overloaded during transportation, it is being followed as per permission issued by JDM, Joda, and further through the i3MS portal of govt. of Odisha. Further, we are also ensuring that all the trucks used for the mineral transportation are covered with tarpaulin to avoid the spillage of ore. Photo enclosed as Photo # 5.
XIV	Monitoring of ground and surface water quality shall be regularly conducted and records should be maintained and data shall be submitted regularly to SEIAA, Orissa.	The project is carrying out the monitoring of groundwater in 6 locations and surface water in 4 locations regularly by covering core and buffer zone area of the project. The monitoring is being carried with specified parameters of SPCB/CPB/MoEF&CC standards and all the test results are found well within the prescribed norms. Test reports of the same are enclosed as Annexures # 3&4.

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XV	<p>The proponent shall ensure that no silt originating due to mining activity is transported in the surface watercourse. Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geotextile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.</p>	<p>The project is ensuring and implementing the necessary precautionary measures by application of grass seeds, coir mat applications and plantations over the dump slopes towards control of soil erosion along with the construction of guard wall of gabion boxes, check dams, check weirs, settling pits, etc. at the toe of the dumps for prevention and control of soil erosion and management of silt. Apart from that, the project has also constructed concrete structures of RCC wall at the toe of the dump and strategic locations for prevention of the soil erosion and management of silts. Photo enclosed as Photo # 6.</p>
XVI	<p>Trenches/garland drains shall be constructed at foot of dumps to arrest silt from being carried to water bodies. An adequate number of check dams shall be constructed across seasonal/ perennial Nallah (if any) flowing through the ML area and silts are arrested. De-silting at regular intervals shall be carried out.</p>	<p>There is no presence of any seasonal/perennial Nallah flowing through the ML area. However, the project has constructed a guard wall of gabion boxes & RCC structures, trenches, garland drains, check weirs, settling pits, etc. at the toe of the dumps & strategic locations for prevention and control of soil erosion and management of silt. Photo enclosed as Photo # 6.</p>
XVII	<p>Provisions shall be made for the housing of the laborers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche, etc. the housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>Not Applicable, as the workers engaged in mines activity are from the locals. However, the project has made the provision of mobile toilets, safe drinking water, and health care facilities inside the mine's premises. Photo enclosed as Photo # 7.</p>

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XVIII	<p>Occupational health and safety measures for the workers including identification of work-related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust, etc. shall be carried out. The proponent shall engage a full-time qualified doctor who is trained in occupational health. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including the health records of the workers. Awareness programs for workers on the impact of mining on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. A review of the impact of various health measures undertaken (at an interval of five years or less) shall be conducted followed by follow-up action wherever required. An Occupational Health center shall be established near the mine site itself.</p>	<p>Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken periodically for employees, who are engaged in the process of mining & are likely exposed to dust to observe any contractions due to exposure to dust. This is being carried as per in compliance to Mines Act 1952 & rules 1956 and amendments thereto. The Periodical Medical Examination & Initial Medical Examination was held for 34 No. of employees (IME-15 & PME-33) from April to September, 2021.</p> <p>The various tests include PFT, X-Ray, and lung spirometry, etc. Based on the above tests, there is none of the above-mentioned employees was found by Silicosis/ Pneumoconiosis or occupational health-related diseases during the examination.</p> <p>The test certificate of the employees is enclosed as Annexure # 5.</p> <p>Noise level is also being monitored on regular basis to ascertain the noise level in the work zone environments like ambient & work zone areas, report enclosed as Annexure # 10.</p>
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XIX	<p>Shelterbelt i.e. windbreak of 15 m width and consisting of at least 5 tiers around lease facing the human habitation, school/agricultural fields, etc. (if any in the vicinity) in the safety zone/backfilled and reclaimed areas, around voids and roads shall be raised. Green belt development and selection of plant species shall be as per CPCB guidelines. The density of the trees has to be around 2500 plants per hectare, herbs and shrubs shall also form a part of the afforestation program besides tree plantation. Help and guidance of local DFO may be sought in the matter. Details of the year-wise afforestation program including rehabilitation of mined-out area shall be submitted to the SEIAA, Orissa within six months.</p>	<p>The mine is located inside the Forest area and it is also surrounded by other mine leases. There is no such presence of any human habitations in and around the ML area.</p> <p>The project has started backfilling of the exhausted mines voids during 2019-20 over an area of 0.648 Ha & 0.788 Ha for the year 2020-21 as approved in the Mining Plan by IBM.</p> <p>However, the project has planted 5200 no. saplings of native species across the safety zone, river safety zone, etc. in consultation with local Forest Dept. during the reporting period. Photos of the same are given in as Photos#1A.</p> <p>The year wise plantation details is also submitted to the respective authorities & its mentioned in table no. # 4.</p>
XX	<p>This environmental clearance is subjected to forest clearance under the Forest (Conservation) Act, 1980.</p>	<p>The project has obtained the Forest Clearance over the entire forest area involved in the project i.e. 35.774 Ha from the MOEFCC, GOI under the FC Act, 1980. Copy enclosed as Annexure # 6.</p>
XXI	<p>The mining operation shall be restricted to the above groundwater table and it should not intersect the groundwater table. The depth of mine should be restricted to the depth mentioned in Form 1-A at the most.</p>	<p>As per the approved mining plan by the Indian Bureau of Mines, GoI and hydrogeology study, the groundwater table exists at 510 m RL and present mines operation is restricted at 547 M RL. So, there is no occurrence of groundwater intersection during the reporting period.</p>
XXII	<p>The topsoil shall temporarily be stored at an earmarked site (s) only and it should not be kept unutilized for long (not more than 3 years). The topsoil shall be used for land reclamation and plantation.</p>	<p>The project had kept the topsoil in an earmarked area with proper stabilization measures. The same has already been utilized for land reclamation and plantation purposes during the rainy season.</p>

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XXIII	<p>The overburden (OB) generated during the mining operation shall be stacked at the earmarked dump site(s) only and it should not be kept active for a long period of time and its phase-wise stabilization shall be carried out. Proper terracing of OB dump shall be carried out so that the overall slope shall not exceed Backfilling shall be done as per approved mining plan, mine closure plan. Backfilling to start from 3rd year onwards of the mining operation and the entire quantity of waste generated shall be back-filled and used within five years. There shall be no external OB dumps after the 6th year of the mining operations. The backfilled area shall be afforested. Back-filling has to be done in a manner that it is restored to the normal ground level. Monitoring and management of rehabilitee areas should continue till the vegetation is established and becomes self-generating compliance status to be reported to the appropriate authorities.</p>	<p>The overburden (OB) generated during the mining operation is being stacked at the earmarked dump site(s) only and its active one. Proper terracing of OB dump is being carried out so that the overall slope shall not exceed as per the approved mining plan. The dump is provided with a retaining wall at the toe followed by a garland drain and settling pits. Photos of the same are given in as Photos # 1B. However, the project has started backfilling of the proposed southern part of the exhausted mines quarry-1 voids during 2019-20 over an area of 0.648 Ha for the year 2019-20 & 0.788 Ha for the year 2020-21 out of total ML area of 35.774 Ha as approved in the Mining Plan by IBM. The back-filling area will be monitored and managed with plantation till the vegetation is established and becomes self-sustained to restore the land to a condition.</p>
XXIV	<p>The funds earmarked for the environmental protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes like regular maintenance of vehicles/machinery/ purchase or salary of staff. Year-wise expenditure for this fund should be reported to the SEIAA, Orissa.</p>	<p>The project has earmarked the funds for implementation of environment protection measures and the same is being used for environmental protection measures. The details of the same are mentioned in table no. # 5.</p>

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XXV	<p>The critical parameters such as SPM, RSPM, NO_x in the ambient air within the impact zone, peak particle velocity at 300 m distance or within the nearest habitation, whichever is closure shall be monitored periodically. Further, the 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 the public domain. The circular no. J 20012/1/2006-1A.II (M) dated 27.05.2009 issued by the Ministry of Environment and forest, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.</p>	<p>The said critical parameters are being monitored & uploaded to the company's website bearing the address https://www.sreemetaliks.com/. The said monitored parameters i.e. for AAQ: PM10, PM2.5, SO₂, NO_x, CO & discharge for surface run-off discharge from the mine (treated), etc. are being displayed at the main gate of the mines of the company for the public domain. The details of the same are enclosed as Annexure # 7 & photo as Photo # 7.</p>
XXVI	<p>A final mine closure plan along with details of Corpus Fund shall be submitted to the SEIAA 5 years in advance of final mine closure for approval.</p>	<p>A Final mine closer plan along with a detailed corpus fund will be submitted to the Ministry of Environment & Forest, 5 years in advance of final mine closure for approval.</p>
XXVII	<p>The project proponent shall obtain the necessary prior permission of the competent authorities for drawl of requisite quantity of water (Surface water and groundwater) required for the project</p>	<p>The project has already obtained the necessary clearances from the competent authority for the drawl of the requisite quantity of Surface water i.e. 150 KLD and groundwater i.e. 9.8 KLD. The copy of Groundwater NOC is enclosed as Annexure # 8.</p>

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XXVIII	<p>The project proponent shall prepare a wildlife conservation plan in consultation with DFO and adequate safety and mitigation measures should be incorporated to protect the wildlife, flora, fauna to mitigate the adverse impacts of mining on them.</p>	<p>The project has prepared the Wild Life Conservation Plan in consultation with DFO and the same got approved by PCCF (Wildlife) & Chief Wild Life Warden, Bhubaneswar with an estimated cost of INR 14 Lakhs towards activities to be implemented within the ML area and INR 68 Lakhs towards activities to be implemented by the DFO in the project impact area.</p> <p>The project has carried out the following activities towards the implementation of the Wild Life Conservation Plan within the ML area in consultation with DFO such as plantation of blank areas, conservation measures of soil & moisture, rainwater harvesting measures in core & buffer areas followed by fire protection measures in around of ML area. Further, the project has actively participated in wildlife awareness promotion programs like WED, Wildlife week celebration, etc., and has made provision of funds for the other unforeseen expenses.</p> <p>A copy of the approval of the Wild Life Conservation plan is enclosed as Annexure # 9.</p>
XXIX	<p>The above-mentioned stipulated conditions shall be complied with in a time-bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this environmental clearance and attract action under the Provisions of Environment Protection (EP) Act, 1986.</p>	<p>We will abide by the said condition.</p>

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Additional Condition		
XXX	The mining leaseholder shall, after ceasing mining operations, undertake re-grassing the mining area, and any other areas which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna, etc.	The project has started backfilling of the proposed southern part of the exhausted mines quarry-1 voids during 2019-20 over an area of 0.648 Ha for the year 2019-20 & 0.788 Ha for the year 2020-21 out of total ML area of 35.774 Ha as approved in the Mining Plan by IBM. The back-filling area will be monitored and managed with plantation till the vegetation is established and becomes self-sustained to restore the land to a condition that is fit for the growth of fodder, flora, fauna, etc.

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TABLES

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TABLE # 01

Details of the EMP measures implemented

Table No. 1.1 – Environmental Protection measures

Sl. No	Particulars	Location	Dimensions in M
1	Retaining Wall (L x W x H) in M	Near mine gate sub-grade dump	133X1X1
2	Retaining Wall (L x W x H) in M	Work shop side dump	104x1x1
3	Retaining Wall (RCC) (L x W x H) in M	Nallah side	100x1.5x1
4	Garland drain (L x W x H) in M	From weighbridge gate to bottom crusher side	150x1x0.5
5	Garland drain (L x W x H) in M	On running bench besides mine haul road	110x1x0.5
6	Check dam	Near Pillar No F	8x1x1.5 6x1x1.5
7	Check Weir	Near Pillar No E	27.24x1x1
8	Settling Pit (in CUM)	Near Pillar No E Near Pillar No D	40x20x3.5 30x20x3.0 20x10x3.0

Table No. 1.2

Sl. No.	Particulars	Location	Quantity
1	Plantation (in Nos.)	Gap filling in S/Z	2, 200
2		Dump i.e. back filling area	3, 000
2	Coir Matting (in Sq. M)	SG Dump	5000 sq. M.

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**TABLE # 02
Public Hearing Compliance**

Compliance with the issues raised at the public hearing meeting on dt. 18.02.2009 is given in the following table;

Sl. No.	Particulars	Compliance
1	Supply of Drinking water, Education, electrification, Employment, and road development.	Khandbandh Iron Ore Mines of Sree Metaliks Limited has started operation in March 2018. Most of the issues as rose during the public hearing meeting like road development, Employment, Supply of drinking water, etc. are taken into consideration and are full filled.
2	Apart from that, some other issues are taken under CSR activities	(I) 05 Nos. of Sewing Machines a provided to the SHG of this locality to develop their skills and earnings. (II) Ceiling fans are being provided in classrooms of Kundurpani, Jalahari, and Khandbandh U.P. Schools.

**TABLE # 03
Submission of EC Compliance details**

EC Compliance submission Details		
Sl. No.	Period	Date of Submission
1.	April to September 2018	30.11.2018
2.	October 2018 to March 2019	26.05.2019
3.	April to September 2019	25.11.2019
4.	October 2019 to March 2020	13.07.2020
5.	April to September 2020	14.11.2020
6.	October 2020 to March 2021	25.05.2021

Reporting Period: April to September 2021

STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar

TABLE # 04
Plantation details for FY 2021-22

Total Area in Ha.	Total green belt covered till date	Plantation taken up during 2021-22 (Till Sept, 21) as per the target		
		Name of the site	Area in Ha/RKM*	Nos. of seedling planted
35.774	3.826	Dump Area i.e. back filling areas	0.778 Ha	3000
		Safety Zone	GAP PLANTATION	2200
		Other Area inside Mines	...	NIL
		Avenue plantation OR free distribution	...	NIL
		TOTAL		5200

TABLE # 05
Details of the Environmental Expenses

Yearly Environmental Expenses					
Sl. No	Description	Budget: Capital Cost (As per EIA/EMP)	Expense in 2019-20 (in Lakhs)	Expense in 2020-21 (in Lakhs)	Expense in 2021-22 (in Lakhs) (Up to sept 2021)
1	Air Quality Management				
	Dust Suppression	24.00	24.00	26.00	12.00
	Dry fog	12.00	12.00	13.50	3.0
2	Water Quality Management				
	Retaining Wall & Garland drain	26.285	25.00	23.00	16.20
	Check Dam, Settling Ponds, etc.			3.0	0
3	Dump Management				
	Plantation	0.85	0.65	1.0	2.55
	Coir Matting & grass seed application			2.50	5.26
4	Occupational Health & Hygiene				

Reporting Period: April to September 2021

STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar

	IME/PME	0.50	0.26	4.58	0.50
	Safety Items				
5	Environmental Monitoring				
	Monitoring Charges	10.00	6.00	6.00	2.83
	Calibration of Instruments	4.00	0.00	1.0	-
	Electronic display board			2.65	-
6	Water Conservation Measures				
	Rainwater harvesting and its maintenance	10.00	6.00	7.00	0.50
	Others	--	0	0	-
TOTAL		87.635	73.91	90.23	42.84

Reporting Period: April to September 2021

STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar

ANNEXURES

Reporting Period: April to September 2021

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar**

ANNEXURE-1

**Socio Economic Study, Need based assessment
and preparation of CSR/ ESC Plan of Project
Affected Villages around Khandbandh Iron Ore
Mines of M/s. Sree Metaliks Ltd., at Barbil in
Keonjhar district of Odisha**



Sree Metaliks Limited

SML House, Main Road, P.O Barbil, District.,
Keonjhar, Odisha, 758035, India

Study conducted by



ASIAN INSTITUTE FOR SUSTAINABLE DEVELOPMENT

Sreenibas, Shiv Bhavan Lane, Morabadi, Ranchi, Jharkhand – 834008

Email: info@aisdindia.org

Phone & Fax: +91 651 2551034

Reporting Period: April to September 2021

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar**

ANNEXURE – 2: Fugitive Dust Monitoring Report



GSTIN : 21AAACE6224D1ZE



Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025:2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001:2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha
Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

ULR-TC744021000000199F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR) - Fugitive Emission

Pg No: 1 of 1

Date: 21 Jun 2021
Test Report No: ERSIPL/TR/AA/081
 Name and Address of the Customer : Khandbandh Iron Ore Mines of M/s Sree Metaliks Ltd
 Khandbandh, Joda, Keonjhar-758034.
 Sample Collected by : Representative of ERS (I) Pvt. Ltd.
 Sample Collected in presence of : Representative of Customer.
 Date of Sampling/Monitoring : 03.06.2021
 Sample Received on : 07.06.2021
 Analysis Started on : 07.06.2021
 Analysis Completed on : 12.06.2021
 Method of Sampling : As per guidelines for sampling & measurement of notified
 AAQ parameters (NAAQS 2009)-CPCB
 Quantity of Sample : 01 sample for each parameter
 Environment Condition : Sunny

Test Findings*

Sl. No	Monitoring Stations	Sample Id	Date of Monitoring	Analysis Result in $\mu\text{g}/\text{m}^3$
				PM (Particulate Matter) IS: 5182 (Part 4)- 1999, Reaffirmed 2019, Gravimetric Method
1	Near Mines Bench	3582	03/06/2021	174.70
2	Near Haul Roads (inside lease)	3583	03/06/2021	194.47
3	Near Crushing Point	3584	03/06/2021	205.04
4	Near Screening Plant	3585	03/06/2021	172.45
5	Near Ore storage and loading	3586	03/06/2021	202.20
6	Near Waste Dump	3587	03/06/2021	188.37
Permissible Limits				1200.0

Note-*Monitoring carried out with control measures

For ENVIRONMENTAL RESEARCH AND SERVICES (INDIA) PRIVATE LIMITED

Arunabati

(Authorized Signatory)

.....END OF TEST REPORT.....

Reporting Period: April to September 2021

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar**

ANNEXURE – 3: Ground Water Quality Report



CIN - U73100OR1995PTC003889



GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha
Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

Ref. No. ULR-TC744021000000361F

Test Report Format No.: ERSIPL/FM/40

Date.....

TEST REPORT (Water / ~~Waste Water~~)-Drinking Water

Pg No: 1 of 1

Date: 07 Oct 2021 **Test Report No: ERSIPL/TR/WA/191**
Name and Address of the Customer : Khandbandh Iron Ore Mines of M/s Sree Metaliks Ltd
 Khandbandh, Joda, Keonjhar-758034
Date of Sampling : 29.09.2021
Sample Collected by : Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of : Representative of Customer.
Sample Received on : 01.10.2021
Analysis Started on : 01.10.2021
Analysis Completed on : 07.10.2021
Method of Sampling : IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample : 2ltrs
Type of Container : Glass Bottle & HDPE Bottle
Environment Condition : All Tests carried out in Room Temperature

Sample ID. No.

1. ERSIPL/WA/2601
2. ERSIPL/WA/2602

Locations

1. Bore well near Old Camp -Jurudi
2. Bore well near KMC Camp- New

Sl	Parameters Analysed	Test Method	Unit	Permissible Limit as per IS:10500, 2012	Result	
					ERSIPL/WA/2601	ERSIPL/WA/2602
01	Turbidity	IS 3025:Part 10: 1984 Reaffirmed-2017	NTU	1.0	0.6	0.4
02	pH	IS 3025:Part 11: 1983 Reaffirmed-2017	No	6.5 to 8.5	6.54	6.57
03	Total Hardness as CaCO ₃	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	200.0	72.0	62.0
04	Total Iron	IS 3025:Part 53: 2003 Reaffirmed-2019	mg/L	0.3	0.11	0.30
05	Chloride	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	250.0	27.20	24.28
06	Total Dissolved Solids	IS 3025:Part 16: 1984 Reaffirmed-2019	mg/L	500.0	145.2	139.7
07	Calcium as Ca	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	75.0	14.43	16.03
08	Sulphate as SO ₄	IS 3025:Part 24: 1986 Reaffirmed-2019	mg/L	200.0	3.2	2.3
09	Fluoride	IS 3025:Part 60: 2008 Reaffirmed-2013	mg/L	1.0	<0.1	<0.1
10	Total Alkalinity as CaCO ₃	IS 3025:Part 23: 1986 Reaffirmed-2019	mg/L	200.0	38.0	42.0

(Signature)
 (Authorized Signatory)
S.P.Pattanayak
 Tech.Manager

.....END OF TEST REPORT.....

Reporting Period: April to September 2021

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar**



CIN - U73100OR1995PTC003889



GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

Ref. No.

Date.....

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (Water / ~~Waste Water~~)-Drinking Water

Pg No: 1 of 2

Date: 07 Oct 2021

Test Report No: ERSIPL/TR/WA/T-191

Name and Address of the Customer : Khandbandh Iron Ore Mines of M/s Sree Metaliks Ltd
Khandbandh, Joda, Keonjhar-758034

Date of Sampling : 29.09.2021
Sample Collected by : Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of : Representative of Customer.
Sample Received on : 01.10.2021
Analysis Started on : 01.10.2021
Analysis Completed on : 07.10.2021
Method of Sampling : IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample : 2ltrs
Type of Container : Glass Bottle & HDPE Bottle
Environment Condition : All Tests carried out in Room Temperature

Sample ID. No.

Locations

- ERSIPL/WA/2601
- ERSIPL/WA/2602

- Bore well near Old Camp -Jurudi
- Bore well near KMC Camp-New

Sl	Parameters Analysed	Test Method	Unit	Permissible Limit as per IS:10500, 2012	Result	
					ERSIPL/WA/2601	ERSIPL/WA/2602
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2017	Hazen	5.0	<5.0	<5.0
02	Odour	IS 3025:Part 05: 1983 Reaffirmed-2017	--	Agreeable (A)	A	A
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	--	Agreeable (A)	A	A
04	Residual Free Chlorine	IS 3025:Part 26: 1986 Reaffirmed-2019	mg/L	0.2 (min)	Nil	Nil
05	Copper	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	0.05	<0.02	<0.02
06	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2017	mg/L	0.1	<0.01	<0.01
07	Nitrate as NO ₃	IS 3025:Part 34: 1983 Reaffirmed-2019	mg/L	45.0	<5.0	<5.0
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	0.001	ND	ND
09	Mercury	IS 3025:Part 48: 1994 Reaffirmed-2019	mg/L	0.001	ND	ND
10	Cadmium	IS 3025:Part 41: 1992 Reaffirmed-2019	mg/L	0.003	ND	ND
11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	0.01	ND	ND

Reporting Period: April to September 2021

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar**



CIN - U73100OR1995PTC003889



GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha
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Ref. No.

Date.....Page 2 of 2

12	Total Arsenic	IS 3025:Part 37: 1988 Reaffirmed-2019	mg/L	0.01	ND	ND
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed-2019	mg/L	0.05	ND	ND
14	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	0.01	ND	ND
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	5.0	<0.1	<0.1
16	Anionicdetergents	IS 13428 :2005 Reaffirmed-2019	mg/L	0.2	ND	ND
17	Total Chromium	IS 3025:Part 52: 2003 Reaffirmed-2019	mg/L	0.05	ND	ND
18	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	0.0001	ND	ND
19	Mineral Oil	IS 3025:Part 39: 1991 Reaffirmed-2019	mg/L	0.5	ND	ND
20	Pesticides	USEPA gas-liquid chromatography	mg/L	---	ND	ND
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	mg/L	0.03	ND	ND
22	Boron	IS 3025:Part 57: 2005 Reaffirmed-2019	mg/L	0.5	ND	ND
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	0.02	ND	ND

ND - Not Detected

(Authorized Signatory)

S.P.Pattanayak
Tech.Manager

.....END OF TEST REPORT.....

Reporting Period: April to September 2021

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar**

ANNEXURE – 4:Surface water quality report



CIN - U73100OR1995PTC003889



GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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Ref. No.ULR-TC744021000000359F

Test Report Format No.: ERSIPL/FM/40

Date.....

TEST REPORT (WATER/WASTE WATER)

Pg No: 1 of 1

Date: 07 Oct 2021

Test Report No: ERSIPL/TR/WA/189

Name and Address of the Customer : Khandbandh Iron Ore Mines of M/s Sree Metaliks Ltd
Khandbandh, Joda, Keonjhar-758034

Date of Sampling : 29.09.2021
Sample Collected by : Representative of ERS (I) Pvt. Ltd.

Sample Collected in presence of : Representative of Customer.

Sample Received on : 01.10.2021

Analysis Started on : 01.10.2021

Analysis Completed on : 07.10.2021

Method of Sampling : IS 3025: Part 1: 1987, Reaffirmed 2019

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle & HDPE Bottle

Environment Condition : All Tests carried out in Room Temperature

Sample ID. No.

Location

1. ERSIPL/WA/2596 (Surface Water)
2. ERSIPL/WA/2597 (Surface Water)
3. ERSIPL/WA/2598 (Surface Water)
4. ERSIPL/WA/2599 (Surface Water)

1. Water from river Baitarani, near village Jalahuri
2. Water from Dalco Nala Near TATA Pump House No.07
3. Water From Suna Nadi (up-stream of Mines Lease Area)
4. Water From Suna Nadi (down-stream of Mines Lease Area)

S. No.	Test Parameters	Test Method	Unit	Result				Surface water quality standard as per IS:2296 (Class - B)*
				ERSIPL/WA/2596	ERSIPL/WA/2597	ERSIPL/WA/2598	ERSIPL/WA/2599	
1	pH	IS 3025: Part 11:1983, Reaffirmed 2017	No	6.83	5.87	6.91	6.95	6.5 - 8.5
2	Dissolved Oxygen	IS 3025: Part 38:1991, Reaffirmed 2019	mg/L	7.2	7.1	6.9	7.3	5.0 (min)
3	BOD (3 days at 27 ⁰ C)	IS:3025:Part 44:1993 Reaffirmed 2019, 27 ⁰ C 3 days	mg/L	4.5	4.4	3.8	4.5	3.0
4	Fluoride (as F)	IS 3025: Part 60:2008, Reaffirmed 2019	mg/L	<0.1	<0.1	<0.1	<0.1	1.5
5	Hexavalent Chromium (as Cr ⁺⁶)	IS 3025: Part 52:2003, Reaffirmed 2019	mg/L	ND	ND	ND	ND	0.05

ND-Not Detected,

* - Class - B - Water for outdoor bathing

(Authorized Signatory)

S.P.Pattanayak
Tech.Manager

END OF TEST REPORT

Reporting Period: April to September 2021

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar**



CIN - U73100OR1995PTC003889



GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibsr@gmail.com

Ref. No.

Test Report Format No.: **ERSIPL/PM/40**

TEST REPORT (WATER/WASTE WATER)

Pg No: 1 of 1

Date: 07 Oct 2021
Test Report No: ERSIPL/TR/WA/T-189
 Name and Address of the Customer : Khandbandh Iron Ore Mines of M/s Sree Metaliks Ltd
 Khandbandh, Joda, Keonjhar-758034
 Date of Sampling : 29.09.2021
 Sample Collected by : Representative of ERS (I) Pvt. Ltd.
 Sample Collected in presence of : Representative of Customer.
 Sample Received on : 01.10.2021
 Analysis Started on : 01.10.2021
 Analysis Completed on : 07.10.2021
 Method of Sampling : IS 3025: Part 1: 1987, Reaffirmed 2019
 Quantity of Sample : 2ltrs
 Type of Container : Glass Bottle & HDPE Bottle
 Environment Condition : All Tests carried out in Room Temperature

Sample ID. No.

1. ERSIPL/WA/2596 (Surface Water)
2. ERSIPL/WA/2597 (Surface Water)
3. ERSIPL/WA/2598 (Surface Water)
4. ERSIPL/WA/2599 (Surface Water)

Location

1. Water from river Baitarani, near village Jalahuri
2. Water from Dalco Nala Near TATA Pump House No.07
3. Water From Suna Nadi (up-stream of Mines Lease Area)
4. Water From Suna Nadi (down-stream of Mines Lease Area)

S. No.	Test Parameters	Test Method	Unit	Result				Surface water quality standard as per IS :2296 (Class -B)*
				ERSIPL/WA/2596	ERSIPL/WA/2597	ERSIPL/WA/2598	ERSIPL/WA/2599	
1	Phenolic Compounds	IS 3025: Part 43:1992, Reaffirmed 2019	mg/L	ND	ND	ND	ND	0.005
2	Colour	IS 3025: Part 04:1983, Reaffirmed 2017	Hazen	10-15	10-15	10-15	10-15	300
3	Total Coliform	IS 1622:1981, Reaffirmed 2019	MPN/100 ml	12.0	30.0	4.0	6.0	500.0
4	Arsenic (as As)	IS 3025: Part 37:1988, Reaffirmed 2019	mg/L	ND	ND	ND	ND	0.2

ND-Not Detected,
* - Class - B - Water for outdoor bathing

(Authorized Signatory)
S.P.Pattanayak
 Tech.Manager

.....END OF TEST REPORT.....

Reporting Period: April to September 2021

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar**

ANNEXURE – 5: IME & PME Detail

KHANDBANDH IRON ORE MINES of M/s. SREE METALIKS LIMITED IME/PME - REPORT FROM APRIL-2021 TO SEPTEMBER - 2021								
Sl. No.	Name of Employee	Designation	Age	Type of Test IME/PME	Date of Test	Due Date	Certificate Number	Remarks
1	NIRANJAN BARAL	Deputy Officer - HR/IR	52	PME	06-04-2021	06-04-2024	T-8572	
2	PRASENJEET GORAI	Truck Driver (OFF Highway) K3	26	IME	09-04-2021	09-04-2026	T-8589	
3	DEVENDRA PRASAD	Deputy Manager-Mines	50	PME	10-04-2021	10-04-2024	T-8599	
4	RAJENDRA KUMAR SAHOO	JUNIOR OFFICER - HR/IR	31	IME	07-05-2021	07-05-2026	T-8719	
5	LALITA KUMAR ROUT	JUNIOR OFFICER - HR/IR	30	IME	11-06-2021	11-06-2026	T-8776	
6	MUTHUKUMARAN	GET-Mining	21	IME	01-07-2021	01-07-2026	T-8953	
7	TUKUNA GIRI	Helper-S1	21	IME	17-07-2021	17-07-2026	T-8956	
8	GOPINATH SWAIN	LMV Driver-K1	35	PME	18-08-2021	18-08-2026	T-9186	
9	BANAMALI NAIK	Truck Driver(Off Highway) K3	46	PME	18-08-2021	18-08-2024	T-9187	
10	BIMBADHAR ROUT	Deputy Officer-Facility	50	PME	18-08-2021	18-08-2024	T-9188	
11	RAMACHANDRA SWAIN	Hydraulic Excavator Operator K3	54	PME	19-08-2021	19-08-2024	T-9205	
12	MINTU KUMAR SINGH	Truck Driver(On Highway) K2	34	PME	19-08-2021	19-08-2026	T-9207	
13	PINTU NAIK	Wheel Loader Operator K3	31	PME	19-08-2021	19-08-2026	T-9204	
14	PRAKASH CHANDRA MAHATO	Truck Driver (Off Highway)-K3	48	PME	19-08-2021	19-08-2024	T-9206	
15	KABINDRA SAMAL	Truck Driver(On Highway) K2	46	PME	20-08-2021	20-08-2024	T-9242	
16	MANOJ MAJHI	Helper-S1	27	PME	20-08-2021	20-08-2026	T-9244	
17	BHASKAR MOHANTA	Truck Driver(Off Highway) K3	33	PME	20-08-2021	20-08-2026	T-9245	
18	RANJAN KUMAR SAHOO	AUTO ELECTRICIAN	56	PME	20-08-2021	20-08-2024	T-9243	
19	GANGADHAR GIRI	Junior Officer-Logistics	53	PME	25-08-2021	25-08-2024	T-9277	
20	KANNAN VELU KONAR	Welder-K3	47	PME	25-08-2021	25-08-2024	T-9278	
21	PRADIPTA MOHANTA	Truck Driver(Off Highway) K3	33	PME	25-08-2021	25-08-2026	T-9279	
22	ISWAR ROUT	Officer-Road Logistics	52	PME	27-08-2021	27-08-2024	T-9302	
23	KRUSHNA CHANDRA PATRA	Truck Driver(On Highway) K2	50	PME	28-08-2021	28-08-2024	T-9314	
24	ROHINI BAI DHALENDRA	Cleaner	48	PME	28-08-2021	28-08-2024	T-9315	
25	BADAL BIHARI PATRA	Truck Driver(Off Highway) K3	38	PME	03-09-2021	03-09-2026	T-9378	
26	SANJAY KUMAR MOHANTY	Assistant Engineer-Mines	39	PME	03-09-2021	03-09-2026	T-9377	
27	GAYA CHAND NAIK	Truck Driver(On Highway) K2	46	PME	03-09-2021	03-09-2024	T-9380	
28	DEBENDRA MAJHI	Assistant Mechanic-S1	25	PME	03-09-2021	03-09-2026	T-9379	
29	BRAJA KISHORE SAHOO	Truck Driver(On Highway) K2	41	PME	10-09-2021	10-09-2026	T-9435	
30	PRADYUMNA GIRI	Foreman	41	PME	21-09-2021	21-09-2026	T-9473	
31	TUSHAR KUMAR SAHOO	Engineer-Mechanical	27	PME	21-09-2021	21-09-2026	T-9472	
32	SUSHIL KUMAR GOND	Dy.Manager-Mines	41	PME	30-09-2021	30-09-2026	T-9513	
33	NARENDRA MAHANTA	Electrician K1	37	PME	30-09-2021	30-09-2026	T-9514	
34	NIRMAL KUMAR JENA	Deputy Officer-HR/IR	40	PME	30-09-2021	30-09-2026	T-9515	

Reporting Period: April to September 2021

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Khandbandh Iron Ore Mines of M/s. Sree Metaliks Ltd.,
At /PO –Khandbandh, Joda, Dist.: Keonjhar**

ANNEXURE – 6:FC Copy



Government of India/ भारत सरकार
Ministry of Environment, Forest & Climate Change/ पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Eastern Regional Office/ पूर्वी क्षेत्रीय कार्यालय
A/3, Chandrasekharpur/ ए/३, चन्द्रसेखरपुर
Bhubaneswar - 751 023/ भुवनेश्वर - ७५१ ०२३



Telephone: 0674- 2301213, 2301248, 2302452, 2302453. Fax: 0674-2302432. E-mail: roez.bsr-mef@nic.in

No.5-ORC097/2010-BHU

10th January, 2017

To

The Principal Secretary,
Forest & Environment Dept.,
Govt. of Odisha,
Bhubaneswar.

Sub:-

Grant of prior approval under Section 2 (iii) of Forest (Conservation) Act, 1980 concerning 35.774 ha of forest land in favour of M/s Sree Metalliks Limited for iron and manganese ore mining in Khandabandh and Baitarani R.F. in Keonjhar district, Odisha.

Sir,

I am directed to refer to State Govt. letter No.10F(Cons)477/2011-22988/F&E dated 09.12.2016 on the subject mentioned above seeking prior approval of the Ministry of Environment, Forest & Climate Change under Section 2 (iii) of the Forest (Conservation) Act, 1980 and to say that the proposal has been examined by Regional Empowered Committee constituted by the Central Govt. under Section-3 of the aforesaid Act.

After careful examination of the proposal of the State Govt. seeking prior approval under Section-2 (iii) of the Forest (Conservation) Act, 1980 and on the basis of recommendation of the Regional Empowered Committee held on 16.12.2016, **approval** the Ministry of Environment, Forest and Climate Change is hereby granted under Section 2 (iii) of the Forest (Conservation) Act, 1980 concerning 35.774 ha of forest land in favour of M/s Sree Metalliks Limited for iron and manganese ore mining in Khandabandh and Baitarani R.F. in Keonjhar district, Odisha, Odisha subject to the fulfillment of the following conditions:-

- i) Legal status of the forest land shall remain unchanged.
- ii)(a) The State Govt. shall charge the Net Present Value (NPV) of entire forest land of the Mining lease for assignment of lease under this proposal from the user agency as per the orders of Hon'ble Supreme Court of India dated 28.03.2008, 24.04.2008 and 09.05.2008 in Writ Petition (Civil) No.202/1995 and the guidelines issued by this Ministry vide its letter No.5-3/2007-FC dated 05.02.2009 and No.11-599/2014-FC dated 01.04.2015 and 19.10.2015 in this regard.
- (b) The permission is subject to confirmation of NPV amount for the area from Ad-hoc CAMPA.
- (iii) At the time of payment of the Net Present Value (NPV) at the then prevailing rate, the user agency shall furnish an undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India.
- (iv) The approval under Section 2 (iii) of the Forest (Conservation) Act, 1980 shall be valid for a period co-terminus with the period of mining lease in accordance with the provisions of the Mines and Minerals (Development and Regulation) Act, 1957, as amended and the Rules framed thereunder.

Contd...2

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ANNEXURE – 7: Update of EC Compliance on website



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Annexure -8: GW NOC Approval letter



भारत सरकार
Government of India
जल शक्ति मंत्रालय, Ministry of Jal Shakti
जल संसाधन, नदी विकास और गंगा संरक्षण विभाग
Department of Water Resources, River Development & Ganga Rejuvenation
केंद्रीय भूजल प्राधिकरण, दक्षिण पूर्वी क्षेत्र, Central Ground Water Authority,
South Eastern Region
भुजल भवन, खंडागिरी चौक, भुवनेश्वर, ओडिशा, भारत -751030
Bhujal Bhawan, Khandagiri Square, Bhubaneswar, Odisha, India -751030



NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Khandbandh Iron Ore Mines Of M/s Sree Metaliks Ltd.		
Project Address:	At-khandbandh,, Po-Joda, Dist-Keonjhar		
Town:	Joda	Block:	Joda
District:	Kendujhar	State:	Odisha
Pin Code:			
Communication Address:	Plot No-k8/552,, , Bhubaneswar, Bhubaneswar, Khordha, Odisha - 751003		
Address of CGWB Regional Office :	Central Ground Water Board South Eastern Region, Bhujal Bhawan, Khandagiri Square, Nh-5, Bhubaneswar, Khordha, Odisha - 751030		

1. NOC No.:	CGWA/NOC/MIN/ORIG/2019/6703									
2. Application No.:	21-4/2347/OR/MIN/2019	3. Category:	Mining							
4. Project Status:	Existing Project	5. NOC Type:	New							
6. Valid from:	21/11/2019	7. Valid up to:	20/11/2021							
8. Ground Water Abstraction Permitted:										
	Fresh Water		Saline Water							
	Dewatering		Total							
	m ³ /day	m ³ /year	m ³ /day							
	m ³ /day	m ³ /year	m ³ /day							
	9.80	3577.00	9.80							
			3577.00							
9. Details of ground water abstraction /Dewatering structures										
	Total Existing No.:0					Total Proposed No.:1				
	DW	DCB	BW	TW	MP	DW	DCB	BW	TW	MP
Abstraction Structure*	0	0	0	0	0	0	0	1	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit										
10. Quantum of ground water recharge(m ³ /year):	82848.00									

(Compliance Conditions given overleaf)

(P K Mohapatra)
REGIONAL DIRECTOR

Phone No. 0647-2360342

Fax No. 0674-2360332

ई-मेल / E-mail rdser-cgwb@nic.in

वेबसाइट / Website: cgwb.gov.in

जल ही जीवन है। इसे बचायें। Water is precious. Save it.

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ANNEXURE – 9:Site Specific Wild Life Conservation Plan

OFFICE OF THE
PRINCIPAL CHIEF CONSERVATOR OF FORESTS (WILDLIFE)
AND CHIEF WILDLIFE WARDEN: ORISSA: BHUBANESWAR-
751012.

Memo No. 4400 /1WL(C)SSP-311 /2011.

Dated, Bhubaneswar the 27 th June, 2011.

To 27.11
The Chief Conservator of Forests (Nodal),
O/O the Principal Chief Conservator of Forests, Orissa,
Bhubaneswar.

Sub: Approval of site specific wildlife conservation plan of Khandabandh Iron Ore Mines of M/S Sree Metaliks Ltd. in the district of Keonjhar.


I am directed to inform you that the Site Specific Wildlife Conservation Plan for Khandabandh Iron Ore Mines of M/S Sree Metaliks Ltd. in the district of Keonjhar has been approved by the Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Orissa with financial forecast of Rs.82.00 lakhs for the following activities.

- | | |
|--|------------------------------|
| 1.For activities to be implemented by M/S Sree Metaliks Ltd. in ML area | Rs.14.00 Lakhs |
| 2.For activities to be implemented by the DFO, Keonjhar Division in the Project impact area- | Rs.68.00 Lakhs |
| | Total: Rs.82.00 Lakhs |

Various activities in the lease hold area will be executed by the User Agency under the guidance of D.F.O., Keonjhar Division. Rs.68.00 Lakhs may be deposited with the Divisional Forest Officer, Keonjhar Division under CAMPA for implementation of various activities within the project impact area.

Encl: Two Nos. of approved
S.S. WL Conservation Plan.

Approved by Principal C.C.F. (WL),
Orissa, Bhubaneswar.


Conservator of Forests (WL).

Contd..2

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ANNEXURE –10: Noise level monitoring data



Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha
Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

Ref. No.

Date.....

NOISE LEVEL MEASUREMENT REPORT

Date: 07 Oct 2021

Name and Address of the Customer : Khandbandh Iron Ore Mines of M/s Sree Metaliks Ltd
Khandbandh, Joda, Keonjhar-758034

Date of Reading : 29.09.2021

Sample Collected by : Representative of ERS (I) Pvt. Ltd.

Sample Collected in presence of : Representative of the Customer

Sl. No.	Location	Result in dB(A) Leq	
		Day time (6.00AM – 10.00 PM)	Night time (10.00PM – 6.00AM)
01	Mines Office (Core)	54.6	51.9
02	Near Pillar No. F1 (Core)	59.7	54.3
03	Near Work Shop, Pillar No. B (Core)	55.5	53.7
04	Near Pillar No. C2, (Core)	63.1	59.3
05	Near village Jalahuri (Buffer)	56.1	49.8
06	Near village Bichhakhundi (Buffer)	51.9	47.6
07	Near village Ganua (Buffer)	52.4	48.9
08	Near village Khandbandha (Buffer)	53.1	46.8
	PERMISSION		
	Industrial Area	75.0	70.0
	Residential Area	55.0	45.0


(Authorized Signatory)
S.P. Pattanayak
Tech. Manager

.....END OF TEST REPORT.....

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PHOTOGRAPHS

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Photo #1A showing Plantation at the safety zone & dump slope areas



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Photo #1B showing Retaining wall garland drain around OB Dumps & coir mat application for dump stabilization in the back filled areas



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Photo #1C showing dust suppression by water sprinkling



Photo #1D showing dry fog system installation in Crusher & Screen plants



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Photo #2 Showing Drilling Machine with Water Injecting System & dust suppression on the mineral transport route



Photo # 3 - Showing rooftop rainwater harvesting measures at the camp area



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Photo # 4 - Haul road maintenance by Grader application



Photo #5 Showing Trucks and Dumpers Covered With Tarpaulin



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Photo # 6 - Showing settling tanks along with check weir at strategic locations



Photo # 7- Display of environmental monitoring data through electronic display board



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Photo # 8-CSR Works - distribution of Sewing Machine to SHG groups & Ceiling Fans at School



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Photograph of installation of Truck wheel wash system at the exit gate of the mines



Photograph showing the conduct of different awareness program among employees with the involvement of the local stakeholder & govt. officials



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