

# **Six Monthly EC Compliance Report**

**Period:**

**October 2020 to March, 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](http://www.sreemetaliks.com)



**SREE  
METALIKS  
LIMITED**

**Ref. No.: SML-KIOM/MoEF/2021-2022/70**

**Date:25.05.21**

**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 October 2020 to March 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 E-mail i.e. [roez.bsr-mef@nic.in](mailto:roez.bsr-mef@nic.in) & [seiaaorissa@gmail.com](mailto:seiaaorissa@gmail.com) and also uploading the same in our company website with comprehensive data analysis reports (supporting photographs and monitoring reports) for the period **October 2020 to March 2021** in respect of Khandbandh Iron Ore Mining Project of M/s. Sree Metaliks Ltd.

This for your kind information, please.

Yours sincerely,

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

**Mines Manager**  
**Khandabandh Iron Ore Mines**  
**M/s. Sree Metaliks Limited**

**Mines Manager**

Encl. As above

**Reporting Period: OCTOBER 2020 TO MARCH 2021**

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

**Copy to:**

1. The Director (S), Regional Office (EZ), Ministry of Environment, Forest & Climate Change, A-31, Chandrasekharpur, Bhubaneswar.
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum Office Complex, Delhi – 110032
3. The Chairman, State Pollution Control Board, Orissa, A/118, Nilakantha Nagar, Unit – VIII, Bhubaneswar – 751012
4. The Regional Director, Central Ground Water Board, Government of India, South Eastern Region, Bhubaneswar – 751030.

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**At /PO –Khandbandh, Joda, Dist.: Keonjhar**

SL. NO	SPECIFIC CONDITIONS	STATUS AS ON DATE / ACTION TAKEN
I	<p>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>	<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 the <b>table no. # 1.</b></p> <p>The photographs witnessing the same i.e. dust suppression by water tanker, plantation, settling pits, retaining wall etc. Enclosed as <b>Photo # 1 &amp; 2.</b></p>
II	<p>The applicant will take necessary steps for 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>	<p>The project has already undertaken the socio-economic development study of the people by carrying out a need based assessment with provision of employment, education, health care, drinking water and sanitation, road and communication facilities. The report of the same is enclosed as <b>Annexure # 1.</b></p>
III	<p>The applicant will comply with the points, concerns and issues raised by the people during public hearing on 18<sup>th</sup> February, 2009 in accordance with the commitments made by him thereon.</p>	<p>The project has complied all the points, concerns &amp; issues raised by the people during public hearing during operation of the ML area.</p> <p>The detailed point wise compliance of same is mentioned in the <b>Table no. # 2.</b></p>
IV	<p>The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.</p>	<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 &amp; 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 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 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year.</p>	<p>The project is submitting half yearly compliance report to SEIAA, Orissa as well as Regional Office of MOEF&amp;CC, Bhubaneswar on 1<sup>st</sup> June and 1<sup>st</sup>December of each calendar year. The details are mentioned in the <b>Table no. # 3.</b></p>																		
VI	<p>The core zone should be monitored intensively with number. Of stations as prescribed by CPCB, Delhi and unit of pollutant level should be expressed as NAAQ standards of CPCB, Delhi. The detail methodology adopted for analysis of samples shall be cleared indicated and should be in accordance of NAAQs.</p>	<p>The project has already established 4 no. of AAQ monitoring station in the core and 4 no. AAQ monitoring station in 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="797 1066 1333 1339"> <thead> <tr> <th>Sl. No</th> <th>Pollutant</th> <th>Method of Measurement</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SO<sub>2</sub></td> <td>Ultraviolet Fluorescence</td> </tr> <tr> <td>2</td> <td>NO<sub>2</sub></td> <td>Chemiluminescence</td> </tr> <tr> <td>3</td> <td>SPM(PM<sub>10</sub>)</td> <td>Gravimetric</td> </tr> <tr> <td>4</td> <td>SPM(PM<sub>2.5</sub>)</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 <sub>2</sub>	Ultraviolet Fluorescence	2	NO <sub>2</sub>	Chemiluminescence	3	SPM(PM <sub>10</sub> )	Gravimetric	4	SPM(PM <sub>2.5</sub> )	Gravimetric	5	CO	CO monitor
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VII	<p>The proponent shall submit ground tooting baseline data on flora &amp; fauna and CSR activities already carried out within three months to the SEIAA.</p>	<p>The proponent has already carried the ground tooting baseline data on flora &amp; fauna and CSR activities by engaging AISD, Ranchi.</p>																		
VIII	<p>Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.</p>	<p>Adequate buffer zone between two consecutive minerals bearing deposits is being carried as per the approved mining plan/scheme. However, there is only one pit mining operation is carried.</p>																		

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**Khandbandh Iron Ore Mines of M/s. SreeMetaliks Ltd.,**  
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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 waste Mining Concept as per the approved mining plan.
X	The following shall be implemented viz. (a) dump run off should be diverted into setting ponds until it is clear (b) adequate rain water harvesting and ground water 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 followings;</p> <ul style="list-style-type: none"> <li>• Dump run off generated during rainy season is being diverted to the Settling Pits and also to the mines pit for percolation. Photo enclosed as <b>Photo # 3.</b></li> <li>• Adequate rain water harvesting structures are provided for ground water recharge purposes with implementation of Garland drains, Settling pits, Trenches etc. at the strategic locations. Photo enclosed as <b>Photo # 3.</b></li> <li>• Further, the project proponent has also implemented the roof top rain water harvesting measures at their residential camp areas for augmentation and recharge of ground water table of the buffer zone area. Supporting photo enclosed as <b>Photo # 3.</b></li> </ul>
XI	Maintenance of roads through which transportation of ores are 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 grader. Photo enclosed as <b>Photo # 4.</b>

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XII	<b>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.</b>	The project is carrying the fugitive dust monitoring on regular basis and monitoring reports are being submitted on regular basis to SEIAA. The results reveals that, all the parameters are very well within the prescribed norms. The test report of the same is enclosed as <b>Annexure # 2.</b>
XIII	<b>Transportation of ore shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore /dust takes place.</b>	The project is ensuring that the trucks are not being overloaded during transportation, its being followed as per permission issued by JDM, Joda and further through i3MS portal of govt. of Odisha. Further, we are also ensuring that all the trucks used for the mineral transport are covered with tarpaulin to avoid the spillage of ore. Photo enclosed as <b>Photo # 5.</b>
XIV	<b>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.</b>	The project is carrying out the monitoring of ground water in 6 locations and surface water in 4 locations on regular basis of the said parameters. Test reports of the same are enclosed as <b>Annexure # 3&amp;4.</b>
XV	<b>The proponent shall ensure that no silt originating due to mining activity is transported in the surface water course. 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 geo-textile 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.</b>	The project is ensuring and implementing the necessary precautionary measures by application of grass seeds and plantations over the dump slopes towards control of soil erosion along with construction of guard wall of gabion boxes check dams, check weirs, settling pits etc. at toe of the dumps for prevention and control of soil erosion and management of silt. Photo enclosed as <b>Photo # 6.</b>

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XVI	<p><b>Trenches / garland drains shall be constructed at foot of dumps to arrest silt from being carried to water bodies. Adequate number of check dams shall be constructed across seasonal/ perennial Nallah (if any) flowing through the ML area and silts be arrested. De-silting at regular intervals shall be carried out.</b></p>	<p>There is no presence of any seasonal/perennial nalla flowing through the ML area. However, the project has constructed guard wall of gabion boxes, trenches, garland drains, check weirs, settling pits etc. at toe of the dumps &amp; strategic locations for prevention and control of soil erosion and management of silt. Photo enclosed as <b>Photo # 6.</b></p>
XVII	<p><b>Provisions shall be made for the housing of the labors 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</b></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 mines premises.</p>



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<p align="center">XVIII</p>	<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 health records of the workers. Awareness program for workers on impact of mining on their health and precautionary measures like use of personal equipment's etc. shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years or less) shall be conducted followed by follow up action wherever required. Occupational Health center shall be established near the mine site itself.</p>	<p>Initial Medical Examination &amp; Periodical Medical Examination of the workers engaged in the project is being undertaken periodically for employees, who are engaged in the process of mining &amp; 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 &amp; rules 1956 and amendments there to. The Periodical Medical Examination &amp; Initial Medical Examination was held for <b>48 No. of employees</b> (IME-15 &amp; PME-33) for the period of <b>October 2020 to March 2021</b>.</p> <p>The various tests include PFT, X-Ray, and lung spirometry etc. On the basis of 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 <b>Annexure # 5</b>.</p>
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XIX	<p>Shelter belt i.e. wind break 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. Density of the trees has to be around 2500 plants per hectare, herbs and shrubs shall also form a part of afforestation program besides tree plantation. Help and guidance of local DFO may be sought in the matter. Details of 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 mines leases. There is no such presence of human habitations in and around the ML area.</p> <p>The project has started back filling of the exhausted mines voids during 2019-20 over an area of 0.648 Ha &amp; 0.788 Ha for the year 2020-21 as approved in the Mining Plan by IBM.</p> <p>However, the project has planted <b>448 no.</b> 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 given in as <b>Photos#1A.</b></p>
XX	<p><b>This environmental clearance is subjected to forest clearance under the Forest (Conservation) Act, 1980.</b></p>	<p>The project has obtained the Forest Clearance from the MOEFCC, GOI over an area of 30.980 Ha of Forest land under the FC Act, 1980. Copy enclosed as <b>Annexure # 6.</b></p>
XXI	<p><b>The mining operation shall be restricted to above ground water 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.</b></p>	<p>As per the approved mining plan by Indian Bureau of Mines, Gol and hydrogeology study, the ground water table exists at 510 m RL and present mines operation is restricted at 547 M RL. So, there is no occurrence of ground water intersection during the reporting period.</p>
XXII	<p><b>The top soil shall temporarily be stored at 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.</b></p>	<p>The project had kept the top soil in an ear-marked 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 over burden (OB) generated during the mining operation shall be stacked at 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 Back filling shall be done as per approved mining plan, mine closure plan. Back filling to start from 3<sup>rd</sup> 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 6<sup>th</sup> 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 rehabilitatee areas should continue till the vegetation is established and becomes self-generating compliance status to be reported to the appropriate authorities.</p>	<p>The over burden (OB) generated during the mining operation are being stacked at earmarked dump site(s) only and it's active one. Proper terracing of OB dump is being carried out so that the overall slope shall not exceed as per approved mining plan. The dump is provided with retaining wall at toe followed by garland drain and settling pits. Photos of the same given in as <b>Photos # 1B</b>. However, the project has started back filling 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 &amp; 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 environment protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes like regular maintenance of vehicles/ machineries/ purchase or salary of staff. Year wise expenditure for this fund should be reported to the SEIAA, Orissa.</p>	<p>The project has ear marked the funds for implementation of environment protection measures and the same is being used for same. The details of the same are mentioned in <b>table no. # 4</b>.</p>

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XXV	<p>The critical parameters such as SPM, RSPM, NO<sub>x</sub> 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, 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 20012/1/2006-1A.II (M) dated 27.05.2009 issued by Ministry of Environment and forest, which is available on the website of the Ministry <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> shall also be referred in this regard for its compliance.</p>	<p>The said critical parameters are being monitored &amp; uploaded in the company's website bearing address <a href="https://www.sreemetaliks.com/">https://www.sreemetaliks.com/</a>. The said monitored parameters i.e. for AAQ: PM10, PM2.5, SO2, NO<sub>x</sub>, CO &amp; discharge for surface run off discharge from the mine (treated) etc. is being displayed at the main gate of the mines of the company for public domain. The details of the same enclosed as <b>Annexure # 7 &amp; photo as Photo # 7.</b></p>
XXVI	<p>A final mine closer 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 detailed corpus fund will be submitted to the ministry of Environment &amp; Forest 5 years in advance of final mine closure for approval.</p>
XXVII	<p>The project proponent shall obtained necessary prior permission of the competent authorities for drawl of requisite quantity of water (Surface water and ground water) required for the project</p>	<p>The project has already obtained the necessary clearances from the competent authority for drawl of requisite quantity of Surface water and ground water. The copy of Ground water NOC is enclosed as <b>Annexure # 8.</b></p>

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XXVIII	<p>The project proponent shall prepare wild life 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) &amp; Chief Wild Life Warden, Bhubaneswar with 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 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 &amp; moisture, rain water harvesting measures in core &amp; buffer areas followed by fire protection measures in around of ML area. Further, 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>The copy of approval of the Wild Life Conservation plan is enclosed as <b>Annexure # 9.</b></p>
XXIX	<p>The above mentioned stipulated conditions shall be complied in 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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<b>Additional Condition</b>		
XXX	<b>The mining lease holder shall, after ceasing mining operations, undertake re-grassing the mining area, and any other areas which may have been disturbed due their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna, etc.</b>	The project has started back filling 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 which is fit for growth of fodder, flora, fauna, etc.

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**TABLES**

**Reporting Period: OCTOBER 2020 TO MARCH 2021**

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

**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	Garland drain (L x W x H) in M	From weighbridge gate to bottom crusher side	150x1x0.5
4	Garland drain (L x W x H) in M	On running bench besides mine haul road	110x1x0.5
3	Check dam	Near Pillar No F	8x1x1.5 6x1x1.5
4	Check Weir	Near Pillar No E	27.24x1x1
5	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.)	New sapling and gap filling in S/Z	448 nos.
2	Coir Matting (in Sq. M)	SG Dump	5000 Sq. M.

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**TABLE # 02**  
**Public Hearing Compliance**

Compliance of 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 on March 2018. Most of the issue as raised during public hearing meeting like road development, Employment, Supply of drinking water etc. are taken into consideration and being full filled.
2	Apart from that some other issue are taken under CSR activities	(I) 05 Nos. of Sewing Machines are provided to the SHG of this locality to develop their skillness and earnings.  (II) Ceiling fans are being provided at class rooms 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

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**TABLE # 04**  
**Details of the Environmental Expenses**

<b>Yearly Environmental Expenses</b>					
<b>Sl. No</b>	<b>Description</b>	<b>Budget: Capital Cost (As per EIA/EMP)</b>	<b>Expense in 2018-19 (in Lakhs)</b>	<b>Expense in 2019-20 (in Lakhs)</b>	<b>Expense in 2020-21 (in Lakhs)</b>
<b>1</b>	<b>Air Quality Management</b>				
	Dust Suppression	<b>24.00</b>	24.00	24.00	26.00
	Dry fog	<b>12.00</b>	12.00	12.00	13.50
<b>2</b>	<b>Water Quality Management</b>				
	Retaining Wall & Garland drain	<b>26.285</b>	0	25.00	23.00
	Check Dam, Settling Ponds etc.				3.00
<b>3</b>	<b>Dump Management</b>				
	Plantation	<b>0.85</b>	2.001	0.65	1.0
	Coir Matting & grass seed application				2.50
<b>4</b>	<b>Occupational Health &amp; Hygiene</b>				
	IME/PME	<b>0.50</b>	0.15	0.26	<b>4.58</b>
	Safety Items				
<b>5</b>	<b>Environmental Monitoring</b>				
	Monitoring Charges	<b>10.00</b>	3.00	6.00	6.00
	Calibration of Instruments	<b>4.00</b>	0.00	0	1.00
	Electronic display board				2.65
<b>6</b>	<b>Water Conservation Measures</b>				
	Rain water harvesting and its maintenance	<b>10.00</b>	8.00	6.00	7.00
	Others	--	0	0	0.0
<b>TOTAL</b>		<b>87.635</b>	<b>49.15</b>	<b>73.91</b>	<b>90.23</b>

**Reporting Period: OCTOBER 2020 TO MARCH 2021**

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

# **ANNEXURES**

**Reporting Period: OCTOBER 2020 TO MARCH 2021**

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS  
Khandbandh Iron Ore Mines of M/s. SreeMetaliks 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 aroundKhandbandh 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](mailto:info@aisdindia.org)

Phone & Fax: +91 651 2551034

**Reporting Period: OCTOBER 2020 TO MARCH 2021**

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

**ANNEXURE – 2: Fugitive Dust Monitoring Report**



GSTIN : 21AAACE622401ZE



**Environmental Research and Services (India) Pvt. Ltd.**

(As 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: ersibber@gmail.com

ULR-TC743021000000123F

Test Report Format No.: ERSIPL/TR/M/37

**TEST REPORT (AMBIENT AIR) - Fugitive Emission**

Page No: 1 of 1

Date: 10 Apr 2021  
 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 : 03-04.04.2021  
 Sample Received on : 05.04.2021  
 Analysis Started on : 06.04.2021  
 Analysis Completed on : 10.04.2021  
 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	3460	03.04.2021	221.35
2	Near Haul Roads (inside lease)	3461	03.04.2021	184.96
3	Near Crushing Point	3462	03.04.2021	204.49
4	Near Screening Plant	3463	04.04.2021	200.16
5	Near Ore storage and loading	3464	04.04.2021	207.14
6	Near Waste Dump	3465	04.04.2021	214.49
Permissible Limits				1200.0

Note \*Monitoring carried out with control measures

**Reporting Period: OCTOBER 2020 TO MARCH 2021**

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

**ANNEXURE – 3: Ground Water Quality Report**



GSTIN : 21AAACE622HD1ZE

**Environmental Research and Services (India) Pvt. Ltd.**

ISO 9001:2015 Certified Laboratory and ISO 9001:2015 Certified Company

Plot No: B-22, Sector-B, Industrial Estate Chondaka, Infocity Road, Bhubaneswar-751024, Odisha  
 Tel: +91-6497021932, +91-9997690329, E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FW/40

**TEST REPORT (Water/ Waste-Water)-Ground Water**

Pg.No: 1 of 2

Date: 10 Apr 2021	Test Report No: ERSIPL/TR/WA/T-065
Name and Address of the Customer : Khandbandh Iron Ore Mines of M/s Sree Metaliks Ltd Khandbandh, Joda, Keonjhar-758034	
Date of Sampling : 02-03.04.2021	
Sample Collected by : Representative of ERS (I) Pvt. Ltd.	
Sample Collected in presence of : Representative of Customer.	
Sample Received on : 05.04.2021	
Analysis Started on : 06.04.2021	
Analysis Completed on : 10.04.2021	
Method of Sampling : IS 3025: Part 1: 1987, Reaffirmed 2010	
Quantity of Sample : 2ltrs	
Type of Container : Glass Bottle & HDPE Bottle	
Environment Condition : All Tests carried out in Room Temperature	
<u>Sample ID. No.</u>	<u>Locations</u>
1. ERSIPL/WA/2282	1. Open well in Village Jajanga
2. ERSIPL/WA/2283	2. Bore well in Village Khandbandh near OMC Colony
3. ERSIPL/WA/2284	3. Open well in Village Khandbandh
4. ERSIPL/WA/2285	4. Open well in Village Jalahuri

Sl	Parameters Analysed	Test Method	Unit	* Permissible Limit as per IS:10500, 2012	Result			
					ERSIPL/WA/2282	ERSIPL/WA/2283	ERSIPL/WA/2284	ERSIPL/WA/2285
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2017	Hazen	5.0	<5.0	<5.0	<5.0	<5.0
02	Odour	IS 3025:Part 05: 1983 Reaffirmed-2017	--	Agreeable (A)	A	A	A	A
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	--	Agreeable (A)	A	A	A	A
04	Residual Free Chlorine	IS 3025:Part 10: 1980 Reaffirmed-2019	mg/L	0.2 (min)	Nil	Nil	Nil	Nil
05	Copper	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	0.05	<0.02	<0.02	<0.02	<0.02
06	Manganese	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
07	Nitrate as NO <sub>3</sub>	IS 3025:Part 34: 1993 Reaffirmed-2019	me/L	45.0	<5.0	<5.0	<5.0	<5.0
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	0.001	ND	ND	ND	ND
09	Mercury	IS 3025:Part 45: 1994 Reaffirmed-2019	mg/L	0.001	ND	ND	ND	ND
10	Cadmium	IS 3025:Part 41: 1992 Reaffirmed-2019	mg/L	0.003	ND	ND	ND	ND
11	Selenium	IS 3025:Part 46: 2002 Reaffirmed-2019	mg/L	0.01	ND	ND	ND	ND

**Reporting Period: OCTOBER 2020 TO MARCH 2021**

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



GSTIN : Z1AAACF6224D1ZE

**Environmental Research and Services (India) Pvt. Ltd.**

ISO 9001:2015 Certified Company  
 Plot No: B-22, Sector-B, Industrial Estate Chandaika, Infocity Road, Bhubaneswar-751024, Odisha  
 Tel: +91-9437021932, +91-9937690329, E-mail: ersibbs@gmail.com

Test Report Format No.: ERSIPL/FM/40

**TEST REPORT (Water/Waste Water)-Ground Water**

Pg No. 1 of 2

Date: 10 Apr 2021  
 Name and Address of the Customer : Khandbandh Iron Ore Mines of M/s Sree Metaliks Ltd  
 Khandbandh, Joda, Keonjhar-758034  
 Date of Sampling : 02-03.04.2021  
 Sample Collected by : Representative of ERS (I) Pvt. Ltd.  
 Sample Collected in presence of : Representative of Customer.  
 Sample Received on : 05.04.2021  
 Analysis Started on : 06.04.2021  
 Analysis Completed on : 10.04.2021  
 Method of Sampling : IS 3025: Part 1: 1987, Reaffirmed 2019  
 Quantity of Sample : 2litrs  
 Type of Container : Glass Bottle & HDPE Bottle  
 Environment Condition : All Tests carried out in Room Temperature

**Sample ID. No.**  
 1. ERSIPL/WA/2282  
 2. ERSIPL/WA/2283  
 3. ERSIPL/WA/2284  
 4. ERSIPL/WA/2285

**Locations**  
 1. Open well in Village Jajanga  
 2. Bore well in Village Khandbandh near OMC Colony  
 3. Open well in Village Khandbandh  
 4. Open well in Village Jalahuri

Sl	Parameters Analysed	Test Method	Unit	Permissible Limit as per IS:10500, 2012	Result			
					ERSIPL/WA/2282	ERSIPL/WA/2283	ERSIPL/WA/2284	ERSIPL/WA/2285
01	Colour	IS 3025:Part 04: 1988 Reaffirmed-2017	Hazen	5.0	<5.0	<5.0	<5.0	<5.0
02	Odour	IS 3025:Part 05: 1988 Reaffirmed-2017	--	Agreeable (A)	A	A	A	A
03	Taste	IS 3025:Part 07,08: 1988 Reaffirmed-2017	--	Agreeable (A)	A	A	A	A
04	Residual Free Chlorine	IS 3025:Part 26: 1988 Reaffirmed-2019	mg/L	0.2 (min)	Nil	Nil	Nil	Nil
05	Copper	IS 3025:Part 42:1988 Reaffirmed-2019	mg/L	0.05	<0.02	<0.02	<0.02	<0.02
06	Manganese	IS 3025:Part 09: 2006 Reaffirmed-2017	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
07	Iron (as Fe)	Reaffirmed-2019	mg/L	45.0	<5.0	<5.0	<5.0	<5.0
08	Phenolic Compound	IS 3025:Part 43: 1987 Reaffirmed-2019	mg/L	0.001	ND	ND	ND	ND
09	Mercury	IS 3025:Part 46: 1994 Reaffirmed-2019	mg/L	0.001	ND	ND	ND	ND
10	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	0.05	ND	ND	ND	ND
11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	0.01	ND	ND	ND	ND

**Reporting Period: OCTOBER 2020 TO MARCH 2021**

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



GSTIN : 21AAACE6224D1ZE

**Environmental Research and Services (India) Pvt. Ltd.**

ISO/IEC 17025:2017 Certified Laboratory and ISO 9001:2015 Certified Company

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

12	Total Arsenic	IS 3025:Part 37: 1988 Reaffirmed 2019	mg/L	0.01	ND	ND	ND	ND
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed 2019	mg/L	0.05	ND	ND	ND	ND
14	Lead	IS 3025:Part 47: 1994 Reaffirmed 2019	mg/L	0.01	ND	ND	ND	ND
15	Zinc	IS 3025:Part 48: 1994 Reaffirmed 2019	mg/L	5.0	<0.1	<0.1	<0.1	<0.1
16	Anionicdetergents	IS 13428: 2005 Reaffirmed 2019	mg/L	0.2	ND	ND	ND	ND
17	Total Chromium	IS 3025:Part 52: 2003 Reaffirmed 2019	mg/L	0.05	ND	ND	ND	ND
18	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	0.0001	ND	ND	ND	ND
19	Mineral Oil	IS 3025:Part 39: 1991 Reaffirmed 2019	mg/L	0.5	ND	ND	ND	ND
20	Pesticides	USEPA gas-liquid chromatography	mg/L	---	ND	ND	ND	ND
21	Aluminium	IS 3025:Part 50: 2003 Reaffirmed 2019	mg/L	0.03	ND	ND	ND	ND
22	Boron	IS 3025:Part 57: 2005 Reaffirmed 2019	mg/L	0.5	ND	ND	ND	ND
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed 2019	mg/L	0.02	ND	ND	ND	ND

Page 2 of 2

ND - Not Detected

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

(Authorized Signatory)

S.P.Pattanayak  
Tech.Manager



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

**ANNEXURE – 4:Surface water quality report**



GSTIN : 21AAACE6224D1ZE



**Environmental Research and Services (India) Pvt. Ltd.**  
(An ISO/IEC 17025:2017 (NABL) Accredited Laboratory, OSPCB Empowered 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-TC744021000000126F

Test Report Format No.: ERSIPL/FM/40

**TEST REPORT (WATER/WASTE-WATER)**

Page No: 1 of 1

Date: 10 Apr 2021  
 Name and Address of the Customer : Khandbandh Iron Ore Mines of M/s Sree Metaliks Ltd  
 Khandbandh, Joda, Keonjhar-758034  
 Date of Sampling : 03.04.2021  
 Sample Collected by : Representative of ERS (I) Pvt. Ltd.  
 Sample Collected in presence of : Representative of Customer.  
 Sample Received on : 05.04.2021  
 Analysis Started on : 06.04.2021  
 Analysis Completed on : 10.04.2021  
 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/2286 (Surface Water)  
 2. ERSIPL/WA/2287 (Surface Water)  
 3. ERSIPL/WA/2288 (Surface Water)  
 4. ERSIPL/WA/2289 (Surface Water)  
 Location  
 1. Water from river Baitarani, near village Jalabari  
 2. Water from Dulco Nali 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				Reference Standard (IS 3025: Part 1: 1987, Reaffirmed 2019)
				ERSIPL/WA/2286	ERSIPL/WA/2287	ERSIPL/WA/2288	ERSIPL/WA/2289	
1	pH	IS 3025: Part 11:1983, Reaffirmed 2017	No	6.94	6.99	6.94	7.01	8.5 - 8.5
2	Dissolved Oxygen	IS 3025: Part 38:1991, Reaffirmed 2019	mg/L	6.6	6.9	7.5	7.0	5.0 (min)
3	BOD <sub>5</sub> (3 days at 27 <sup>o</sup> C)	IS:3025:Part 44:1993 Reaffirmed 2019, 27 <sup>o</sup> C 3 days	mg/L	4.5	5.6	4.7	5.2	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 <sup>6+</sup> )	IS 3025: Part 52:2003, Reaffirmed 2019	mg/L	ND	ND	ND	ND	0.05

ND: Not Detected  
\* Class - II - Water for outdoor bathing

*[Signature]*

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



GSTIN : 21AAACE6224D1ZE

**Environmental Research and Services (India) Pvt. Ltd.**

ISO 9001:2015 Certified Company  
 Plot No: B-22, Sector-B, Industrial Estate Char. Naka, Infocity Road, Bhubaneswar-751024, Odisha  
 Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

**TEST REPORT (WATER/WASTE WATER)**

Pg No: 1 of 1

Date: 10 Apr 2021  
 Name and Address of the Customer : Khandbandh Iron Ore Mines of M/s Sree Metaliks Ltd  
 Khandbandh, Joda, Keonjhar-758034  
 Date of Sampling : 03.04.2021  
 Sample Collected by : Representative of ERS (I) Pvt. Ltd.  
 Sample Collected in presence of : Representative of Customer.  
 Sample Received on : 05.04.2021  
 Analysis Started on : 06.04.2021  
 Analysis Completed on : 10.04.2021  
 Method of Sampling : IS 3025: Part 1: 1987, Reaffirmed 2019  
 Quantity of Sample : 2litrs  
 Type of Container : Glass Bottle & HDPE Bottle  
 Environment Condition : All Tests carried out in Room Temperature

**Location**

1. Water from river Bakanari, near village Jalahan
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)

- Sample ID. No.
1. ERSIPL/WA/2286 (Surface Water)
  2. ERSIPL/WA/2287 (Surface Water)
  3. ERSIPL/WA/2288 (Surface Water)
  4. ERSIPL/WA/2289 (Surface Water)

S. No.	Test Parameters	Test Method	Unit	Result				Water quality standard as per IS 3025 Part-1*
				ERSIPL/WA/2286	ERSIPL/WA/2287	ERSIPL/WA/2288	ERSIPL/WA/2289	
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	0-05	05-15	0-05	0-05	300
3	Total Coliform	IS 1622:1981, Reaffirmed 2019	MPN/100 ml	32.0	70.0	05.0	08.0	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

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

(Authorized Signatory)  
 S.P. Pattnayak  
 Tech Manager

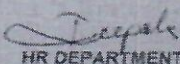
**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS**  
**Khandbandh Iron Ore Mines of M/s. SreeMetaliks Ltd.,**  
**At /PO –Khandbandh, Joda, Dist.: Keonjhar**

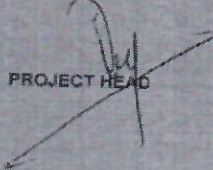
**ANNEXURE – 5: IME & PME Detail**

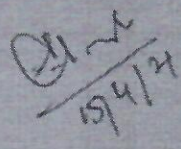
**APPROVAL FOR EMPLOYEES PERIODIC MEDICAL EXAMINATION FEES**  
**TEMPL, SML SITE,**  
**FOR HI-TECH DIAGNOSTIC CENTRE, JODA**

Date: 31 March 2021

Sl. No.	Date of Test	Type of Test	Employee ID	Employee Name	Designation	Certificate Num.	Amount	Remarks
1	23.02.21	PME	10004839	AMARJEET DAS	Senior Engineer-Mechanical	T-8194	Rs. 1,500	
2	24.02.21	PME	10002618	BNADRA MENON M	Wheel Loader Operator-K3	T-8195	Rs. 1,500	
3	23.02.21	PME	10000962	VINOD KUMAR SAHU	Mechanic-K7	T-8196	Rs. 1,500	
4	23.02.21	PME	10004165	JAJATI KUMAR DAS	Truck Driver(Off Highway)-K3	T-8197	Rs. 1,500	
5	24.02.21	PME	10007717	KALASH CHANDRA SWAIN	Comms Lpt-K51	T-8198	Rs. 1,500	
6	24.02.21	PME	10004726	JAJPARAJYA ROLIT	Assistant Plant Operator-K2	T-8223	Rs. 1,500	
7	27.02.21	PME	10001508	NIRANJAN CHOLISHURY	Assistant Officer-Logistics	T-8243	Rs. 1,500	
8	27.02.21	PME	10004144	SHIKANT KUMAR RANA	Assistant Welder-S2	T-8242	Rs. 1,500	
9	27.02.21	PME	10003392	DINABANDHU SAHOO	Helper-S1	T-8243	Rs. 1,500	
10	27.02.21	PME	10004740	RAKESH BOJHAN ROLIT	Assistant Officer-Warehousing	T-8244	Rs. 1,500	
11	27.02.21	PME	10004740	SHYAMSHAN NATH	Tric-Je Engineer-Electrical	T-8245	Rs. 1,500	
12	01.03.21	PME	10003623	RAJENDRAN SOREN	Hydraulic Excavator Operator-K3	T-8290	Rs. 1,500	
13	01.03.21	PME	10000467	BISWANATH MUNDA	Truck Driver(On Highway)-K2	T-8291	Rs. 1,500	
14	01.03.21	PME	10003369	ANANTA KUMAR NAYAK	Truck Driver(On Highway)-K2	T-8292	Rs. 1,500	
15	18.03.21	PME	10004150	BENUDHAR BAYAR	Truck Driver(On Highway)-K2	T-8429	Rs. 1,500	
16	18.03.21	PME	10007871	KALIA PALLAI	Hydraulic Excavator Operator-K3	T-8430	Rs. 1,500	
17	19.03.21	PME	10004813	KHAGESHWAR MANDAL	Truck Driver(Off Highway)-K2	T-8458	Rs. 1,500	
18	19.03.21	PME	10008420	HASMAT HUSSAIN	Assistant Tyre Fitter-S1	T-8458	Rs. 1,500	
19	19.03.21	PME	10003345	RAMCHANDRA RANA	Hydraulic Excavator Operator-K1	T-8460	Rs. 1,500	
20	19.03.21	PME	10008736	CHANDAN GOUDA	Helper-U1	T-8461	Rs. 1,500	
21	20.03.21	PME	10011542	BTENDRA MAHANTA	Wheel Loader Operator-K3	T-8471	Rs. 1,500	
22	20.03.21	PME	10006448	KISHOR NAIK	Truck Driver(On Highway)-K2	T-8472	Rs. 1,500	
23	20.03.21	PME	10011541	RAMA CHANDRA PRADHAN	Truck Driver(On Highway)-K2	T-8473	Rs. 1,500	
24	20.03.21	PME	10000989	SUBASH CHANDRA SWAIN	Junior Officer-Logistics	T-8474	Rs. 1,500	
25	20.03.21	PME	18000018	GOPAL MUKHERJEE	Blk-T-Mole Driver	T-8475	Rs. 1,500	
26	21.03.21	PME	10011552	ABULHA MAHARANA	Truck Driver(On Highway)-K2	T-8476	Rs. 1,500	
27	21.03.21	PME	10011513	AJAY YADAV	Truck Driver(Off Highway)-K3	T-8477	Rs. 1,500	
28	21.03.21	PME	10004080	ABJUNAN M	Helper-S1	T-8478	Rs. 1,500	
29	22.03.21	PME	10004569	ASHIMANYU NAYAK	Truck Driver(On Highway)-K2	T-8488	Rs. 1,500	
30	22.03.21	PME	10004450	SANTOSH PANDEY	Helper-S1	T-8489	Rs. 1,500	
31	22.03.21	PME	10001228	PURNIA CHANDRA SAHUS	Wheel Loader Operator-K3	T-8490	Rs. 1,500	
32	23.03.21	PME	10004670	VINOD KUMAR SINGH	Truck Driver(Off Highway)-K2	T-8500	Rs. 1,500	
33	23.03.21	PME	10011540	BHOLESWAR SWAIN	Truck Driver(On Highway)-K2	T-8511	Rs. 1,500	
34	23.03.21	PME	10001510	DEEPAK KUMAR PATTANAYAK	Assistant Officer-HR/IR	T-8502	Rs. 1,500	
35	24.03.21	PME	10000770	MAHENDRA THAKRE	Blast Hole Drill Operator-M1	T-8504	Rs. 1,500	
36	24.03.21	PME	10011054	IPARESH KUMAR SASTRI	Truck Driver(Off Highway)-K3	T-8505	Rs. 1,500	
37	24.03.21	PME	10001296	ASIT KUMAR JENA	Electrician-K2	T-8506	Rs. 1,500	
38	24.03.21	PME	10001384	SUSHANTA KUMAR SAHU	Truck Driver(On Highway)-K2	T-8507	Rs. 1,500	
39	24.03.21	PME	10000796	NALAY KUMAR NAYAK	Truck Driver(On Highway)-K2	T-8508	Rs. 1,500	
<b>Total=</b>							<b>Rs. 58,500</b>	

  
**HR DEPARTMENT**

  
**PROJECT HEAD**

  
 19/4/21

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

**ANNEXURE – 6:FC Copy**



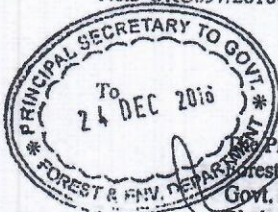
Government of India भारत सरकार  
Ministry of Environment, Forest & Climate Change/ पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय  
Eastern Regional Office/ पूर्वी क्षेत्रीय कार्यालय  
A/3, Chandrasekharpur Road, Chandrasekharpur  
Bhubaneswar - 751 023/ भुवनेश्वर - 751 023



Telephone: 0674-2301213, 2301248, 2302452, 2302457. Fax: 0674-2302452. Email: [ecr@moef.gov.in](mailto:ecr@moef.gov.in)

No.5-ORC097/2010-BHU

16<sup>th</sup> December, 2016



*A. Aravindan - 2*

*Stage - II Forest clearance order*

Principal Secretary,  
Forest & Environment Department,  
Govt. of Orissa,  
Bhubaneswar.

Sub:- Diversion of 30.980 ha of forest land in Baitarani Reserve Forests in Keonjhar district, Orissa for Iron ore mining by M/s Sree Metaliks Ltd.

*G. Singh (Dir.)*  
*Om*

I am directed to refer to State Govt. letter No. 10F(Cons)88/2009-4788/F&E dated 08.03.2010, wherein prior approval of the Ministry of Environment & Forests for diversion of 30.980 ha of forest land in Baitarani Reserve Forests in Keonjhar district, Orissa for Iron ore mining by M/s Sree Metaliks Ltd., was sought in accordance with Section-2 of the Forest (Conservation) Act, 1980. After due consideration of the proposal by the Ministry of Environment & Forests and on the basis of recommendation of State Advisory Group held on 19.10.2010, the in-principle approval for diversion of the said forest land was accorded by Ministry vide this office letter of even number dated 11.03.2011, subject to fulfillment of certain conditions. The State Government has furnished compliance report in respect of the conditions stipulated in the in-principle approval and has requested to grant final approval of the proposal.

*Dev*  
*2/1/16*

2. In this connection, I am directed to say that on the basis of the compliance report furnished by the State Government of Odisha vide their letter No.10F(Cons)477/2011-14946/F&E dated 11.08.2016, approval of the Ministry of Environment, Forest & Climate Change is hereby granted under Section 2 of the Forest (Conservation) Act, 1980 for diversion of 30.980 ha of forest land in Baitarani Reserve Forests in Keonjhar district, Orissa for Iron ore mining by M/s Sree Metaliks Ltd., subject to the fulfillment of the following conditions:-

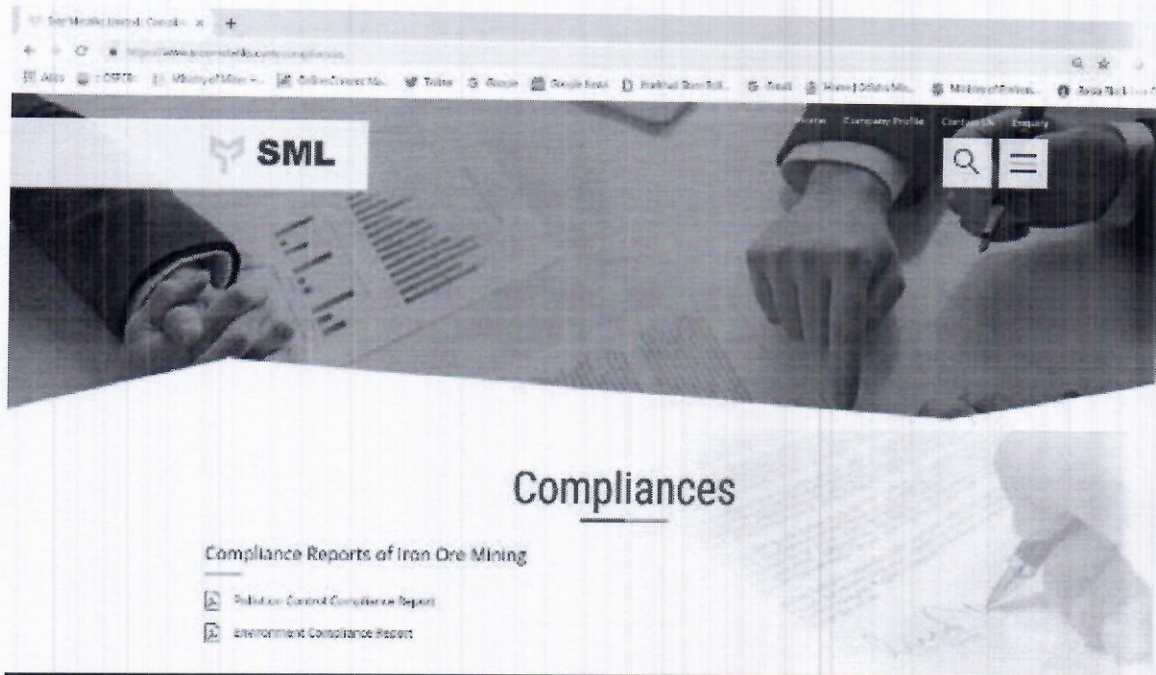
- i) Legal status of the diverted forest land shall remain unchanged.
- ii) Additional amount of NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India, shall be charged by State Govt. from the user agency. An undertaking from the user agency shall be obtained in this regard.
- iii) Compensatory Afforestation shall be raised and maintained over 31.00 ha of non-forest land identified in village Champajhar in Plot No.166/179(P) and 166/180(P) of Khata No.24 of Parbat-II Kissam in Telkoi Tehsil of Keonjhar district from the funds provided by the user agency.

*[Signature]*

Contd....2

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

**ANNEXURE – 7: Update of EC Compliance in website**



**Reporting Period: OCTOBER 2020 TO MARCH 2021**

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

**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 & Gange Rejuvenation  
केंद्रीय भूजल प्राधिकरण, दक्षिण पूर्वी क्षेत्र, Central Ground Water Authority,  
South Eastern Region  
भुवनेश्वर, खण्डगिरी चौक, भुवनेश्वर, ओडिशा भारत -751030  
Bhujal Bhawan, Khandagiri Square, Bhubaneswar, Odisha -751030



**NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION**

Project Name:	Khandbandh Iron Ore Mines Of M/s Sree Metalike 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 <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year		
	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 <sup>3</sup> /year):						82848.00				

(Compliance Conditions given overleaf)

( P K Mohapatra )  
REGIONAL DIRECTOR

Phone No. 0674-2300342

Fax No. 0674-2300332

ई-मेल / E-mail id:ser-cgwb@nic.in

वेबसाइट / Website: cgwb.gov.in

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

**Reporting Period: OCTOBER 2020 TO MARCH 2021**

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

**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 2 th June, 2011.

To 2.7.11  
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.

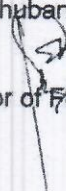
I am directed to inform you that the Site Specific Wildlife  
Conservation Plan for Khandabandh Iron Ore Mines of M/S Sree  
Metaliks Ltd. in the district of Keonjhar has been approved by the  
Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden,  
Orissa with financial forecast of Rs.82.00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

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

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

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

# **PHOTOGRAPHS**

**Reporting Period: OCTOBER 2020 TO MARCH 2021**

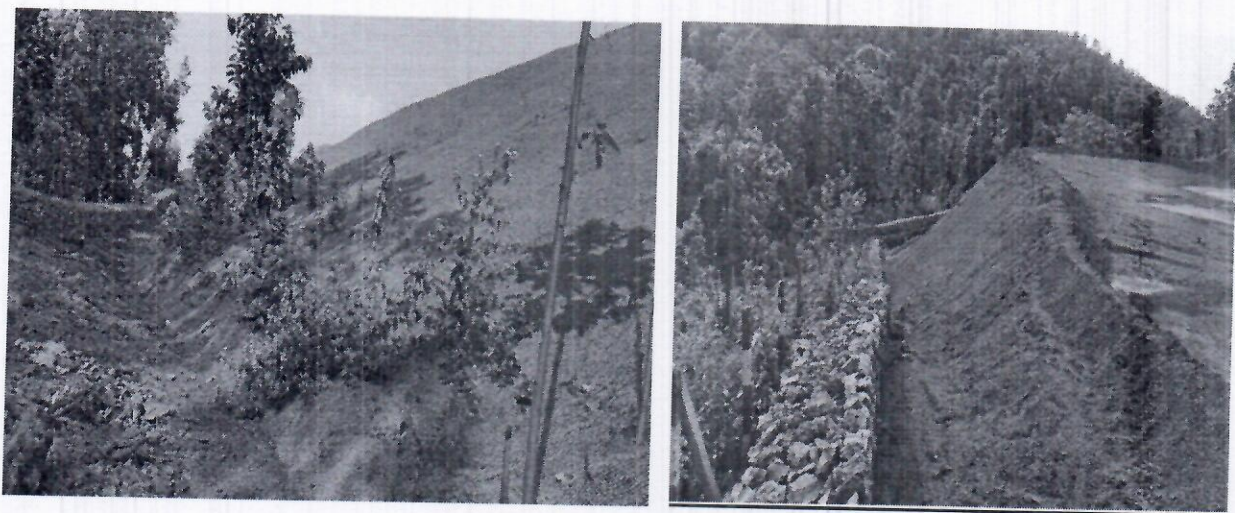


**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS  
Khandbandh Iron Ore Mines of M/s. SreeMetaliks Ltd.,  
At /PO –Khandbandh, Joda, Dist.: Keonjhar**

**Photo #1A showing Plantation at safety zone**



**Photo #1B showing Retaining wall garland drain around OB Dumps & coir mat application for dump stabilization**



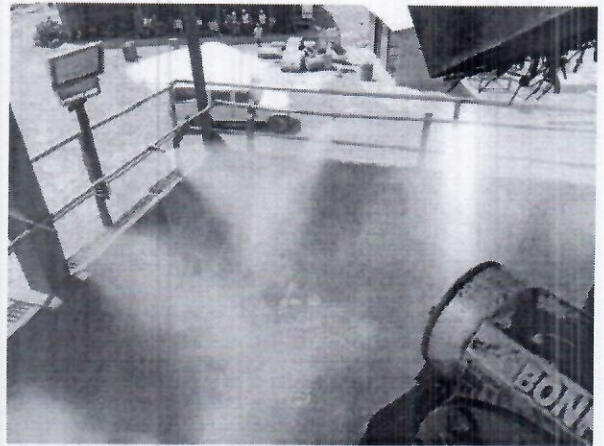
**Reporting Period: OCTOBER 2020 TO MARCH 2021**

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

**Photo #1C showing dust suppression by water sprinkling**

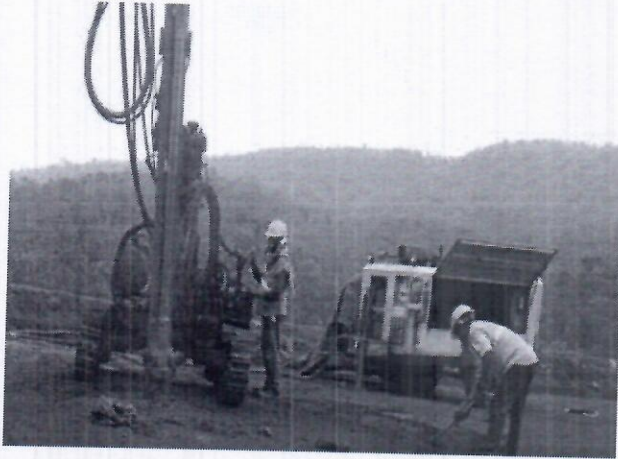


**Photo #1D showing dry fog system installation in Crusher & Screen plants**

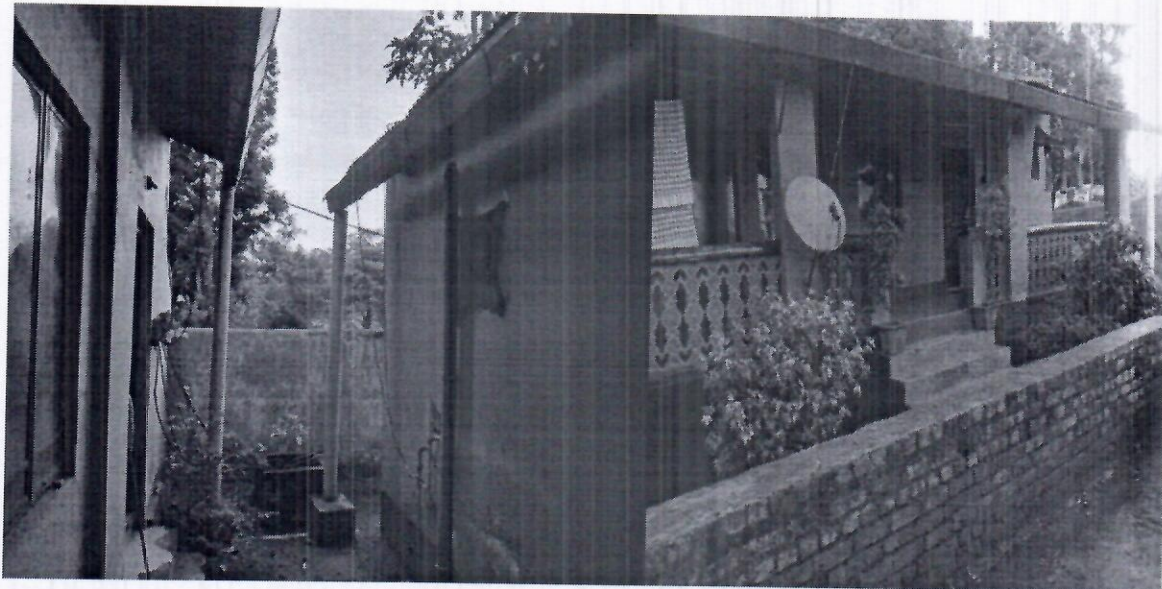


**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS  
Khandbandh Iron Ore Mines of M/s. SreeMetaliks Ltd.,  
At /PO –Khandbandh, Joda, Dist.: Keonjhar**

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

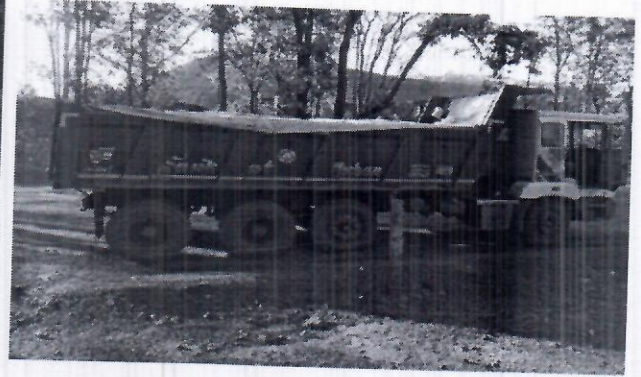


**Photo # 3 - Showing roof top rain water harvesting measures at camp area**

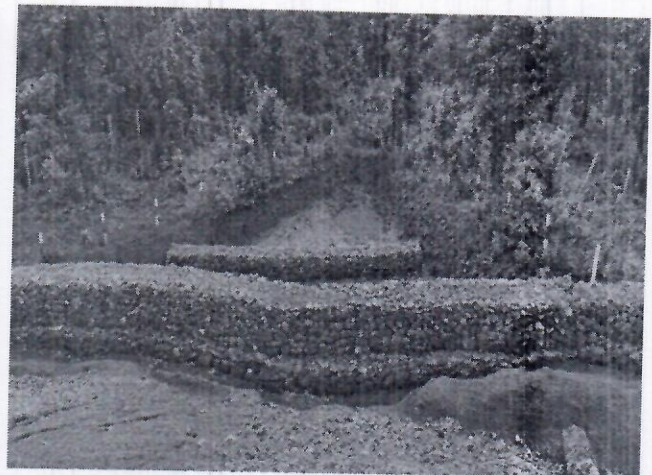


**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS**  
**Khandbandh Iron Ore Mines of M/s. SreeMetaliks Ltd.,**  
**At /PO –Khandbandh, Joda, Dist.: Keonjhar**

**Photo # 4 - Haul road maintenance by Grader application AND Photo #5  
Showing Trucks and Dumpers Covered With Tarpaulin**



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



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

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



**Photo # 8-Distribution of Sewing Machine to SHG groups & Ceiling Fans at School**

