

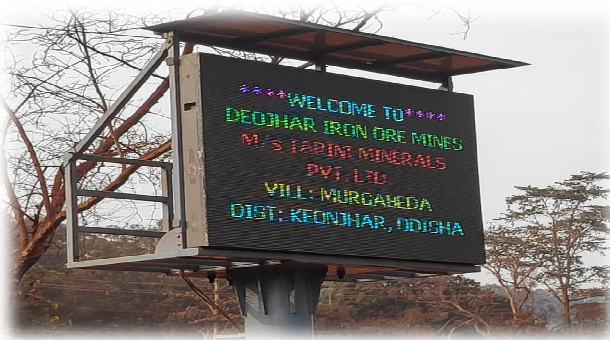
Compliance Status of Environmental Clearance Condition –“ Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.” Located near village Deojhar (Thakurani RF) of Keonjhar Dist., Odisha

Six Monthly E.C Compliance report

Period: October-2021 to March-2022

Environment Clearance Letter No.:

SEIAA/26/9, dated. 27.11.2009 and 3427/SEIAA, dated 30.05.2015.



Deojhar Iron Ore Mines
M/s. Tarini Minerals Pvt. Ltd.

www.diom-tm.com

Reporting Period: October-2021 to March-2022

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A. SPECIFIC CONDITIONS

SL. No.	SPECIFIC CONDITION	COMPLIANCE
1	<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 proponent has taken up adequate preventive measures for prevention and control of different environmental parameters;</p> <p>a. Air pollution Measures: Regular water sprinkling by engaging mobile water tankers, truck wheel wash system, dry fog system in mineral handling plants & plantation,</p> <p>b. Water pollution Measures: Provided settling pond, check dam with cumulative length of 541 mtrs. with garland drains during the monsoon season, preventive and scheduled maintenance of the HEMM are being carried out at regular intervals to avoid/ mitigate any noise induced pollution, de-silting of the surface run off management structures is carried</p> <p>c. Dump Management: At present there is 1 No. of OB dump which is active with retaining wall at its toe.</p> <p>d. Environmental Monitoring: Apart from that regular environmental monitoring of different parameters are being carried out as per the MOEF&CC & SPCB guidelines for Air, Water, Noise etc.</p> <p>The photo of the same is enclosed as photo-1,2,3,4&5.</p>
2	<p>The applicant will take necessary steps for socio economic development after a detailed Primary Socio-economic Survey of the people of Core area on need based assessment for providing employment, education, health, drinking water and sanitation, road and</p>	<p>The project has carried a need based assessment by engaging a consultant i.e. JANASADHANA. Based on the findings different projects have undertaken in consultation with “JANASADHANA” for the socio-economic development of the local people belongs to adjoining villages. The</p>

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	communication facilities etc. A report is to be submitted by the proponent to SEIAA regularly on 1st June and 1st December of each calendar year.	year wise CSR expenses incurred by the project are attached as Table-01 .
3	The applicant will comply with the points concerns and issues raised by the people during public hearing on 4 th February, 2009 in accordance with the commitments made by him thereon.	We have full-filled the commitment regarding the demands raised during the public hearing and compliance are made as per the commitments i.e. Infrastructure development, Health, Sanitation, Education, etc. All the raised points are addressed and complied. The details have been attached here in Table - 02 .
4	The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.	Necessary statutory clearances/approval/permissions from the concerned authorities have been obtained such as: Consent to Operate from SPCB, Ground Water Permission from CGWA, Hazardous waste authorization, approved mining plan from IBM, Forest clearance from MoEF, etc. Forest Clearance from MoEF (copy attached as Annexure - 1), Consent to Operate from SPCB, Orissa vide letter No.: 2603/IND-I-CON-1373 date 14.03.2019 (copy attached as Annexure - 2), Approved Mining Scheme from IBM for the period 2019-20 to 2023-24 vide letter No.MS/FM/39-ORI/BHU/2018-19/2501 dated. 25.01.2019 (copy attached as Annexure - 3).
5	For post environmental clearance monitoring, the applicant will submit half yearly compliance report in respect of the stipulated terms and conditions of this Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Orissa on 1 st June and 1 st December of each calendar year.	Half yearly compliance is being submitted as per the EC conditions on time to time basis. The half yearly compliance status reports are mentioned in Table -03 .

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6	<p>The core zone should be monitored intensively with no. of stations as prescribed by CPCB, Delhi and unit of pollutant level should be expressed as NAAQ of CPCB, Delhi. The detail methodology adopted for analysis of samples shall be cleared indicated.</p>	<p>Regular monitoring of AAQ in the core as well as buffer zone of the ML area being done as per the NAAQ’s notification. The project is also adopting specified methodology for analysis of the AAQ parameters. The summarized AAQ report is attached as Annexure-04.</p> <table border="1" data-bbox="842 577 1441 869"> <thead> <tr> <th>Sl.No.</th> <th>Pollutant</th> <th>Method</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	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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5	CO	CO monitor																		
7	<p>The proponent shall submit ground footing baseline data on flora and fauna and CSR activities already carried out within three months to the SEIAA, Orissa.</p>	<p>The site specific Wildlife Conservation Plan has been approved by PCCF (Wildlife), Chief Wildlife Warden, Odisha. The project has estimated cost of Rs. 54 Lakhs which includes cost for both buffer zone i.e. Rs. 41 Lakhs which is already deposited through RTGS No. BARBH4179631316 dated. 28.06.2014 in favor of CA Fund and core zone i.e. Rs. 13 Lakhs for the conservation and management of wildlife.</p> <p>Project proponent has appointed 4 nos. of watchers for protection of wild animals with the expenditure of Rs. 3.8 Lakhs/annum. Apart from that, the project proponent has constructed check dam & check weirs to restrict the mixing of undesired substances in nearby streams & also established guard wall along the sides of nallas.</p> <p>The copy of the same is attached as Annexure — 5 (approval letter).</p>																		
8	<p>No two pits shall be simultaneously worked. After exhausting the first mine pit and before starting mining operations in the next pit, reclamation and plantation</p>	<p>There is only one mines pit i.e. Pit No.-1 which is still active. The project is operating according to the above mentioned condition and the approved mining</p>																		

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	works in the exhausted pit shall be completed so as to ensure that reclamation, forest cover and vegetation should be visible during the first year of mining operations in the next pit. This process will follow till the last pit is exhausted. Adequate rehabilitation of mined pit shall be completed before any new ore body is worked.	scheme/plan including PMCP as approved by IBM.
9	Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.	There is only one mines pit and the project has maintained the safety zone of 7.5 m width around the ML boundary. The project has planted 3500 numbers of saplings inside the ML area till during April-2021 to March-2022 apart from that we have distributed 500 nos. of fruit bearing saplings to nearby villages and school photo of the same is attached as photo – 06 . Annual plantation details have been given in table – 4 .
10	Zero waste mining concept shall be implemented either by putting up pelletisation plant or disposal of low grade ores/fines to prospective buyers.	Due to the incorporation of better & efficient machineries and latest technologies, we ensure that zero wastes will be coming out due to the mining activity. Steps have been initiated to work out in this context.
11	The following shall be implemented viz. (a) dump run off should be diverted into settling ponds until it is clear (b) adequate rain water harvesting and ground water recharging facilities should be developed in the core zone, (c) attempt should be made to achieve zero water balance.	The project has taken the following steps a. Run off generated from Dump areas are being diverted to settling pits with proper checks before disposal to natural water bodies. b. We have implemented the roof top rain water harvesting structures and settling pits cum harvesting structures in the mines areas towards recharge of the ground water. c. Steps have been taken to achieve zero water balance like implementation of STP (Ultra

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		Filtration Unit) for treatment of domestic effluent and reuse of the treated water for mines dust suppression and nearby gardening purpose.
12	Maintenance of roads through which transportation of ores are undertaken shall be carried by the project regularly at its own cost.	The project has black topped the transportation approach roads and regular maintenance of the main approach road along with the mines haul roads are being carried out by engaging the grader periodically, the roads are without ruts & potholes. The project is also ensuring the tarpaulin covers over the loaded trucks so as to prevent the spillage of the materials. The Project authority are regularly monitoring the emission of the vehicle to ascertain whether the vehicle meet the pollution norms. The photo of the same is attached as photo -07 .
13	Fugitive dust generation shall be controlled. Fugitive dust emission shall be 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.	There is regular monitoring of the Fugitive dust emission. The project has taken adequate measures like dry fog system in screen plants, water sprinkling in mines haulage roads etc. towards dust suppression purposes. The project has established the monitoring of fugitive dust in the mining lease area, viz. Mines Face/Haulage Road, Crusher/Screen Plant, Loading/Unloading point. The analysis report of the same is attached as Annexure – 6 .
14	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.	The steps are being followed by proper care towards public roads to ensure that the trucks should not be overloaded during transportation; besides these trucks are being covered with tarpaulins while transportation of the iron ore. Time to time awareness program is being carried out for the operators/drivers etc. towards the same. Photo of the same is attached as

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		photo -07.
15	Rain water harvesting shall be undertaken to recharge the ground water source.	In the entire area, where ever possibility of wash off, flow of sediments etc. is anticipated retaining wall, garland drain, check weirs have been provided apart from that the roof top rain water harvesting structure got implemented towards augmentation of ground water in the camp area. Photo of the same has been attached as Photo -08.
16	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.	Regular monitoring of the ground water quality on quarterly basis, as per the monitoring locations there are 4 nos. of locations and monitoring of the surface water quality is also being carried out in 5 nos. locations. The records are also maintained for this purpose & it's being monitored 4 times in a year i.e. pre-monsoon, monsoon, post monsoon and winter. The monitoring of ground and surface water quality records being submitted to SEIAA, Orissa on half yearly basis and Regional Office of MoEF&CC, Bhubaneswar. The summarized analysis report of the same is attached as Annexure – 7 & 8.
17	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.	The project has provided necessary precautionary measures like siltation pit, retaining walls and garland drains at the toe of the dumps and places wherever required. Apart from that we have provided guard wall as nalla protection measures, a length of 380 mtr. and check weirs at the strategic locations with yearly maintenance. Stabilization of the dumps being done with the application of mixed grass seeds towards vegetation and dump slope stabilization. The photos regarding the

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		same have been attached as Photo -4, 5 &6.
18	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 or perennial nallah (if any) flowing through the ML area be arrested. De-silting at regular intervals shall be carried out.	To arrest silt from mines run off, a number of catch drains and settling cum percolation pits have been constructed with garland drains around the mines dump areas. Nallah protection guard walls have also been constructed across the length of the nallah. Time to time de-silting is followed before each monsoon.
19	Provisions shall be made for the housing the labours 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.	The is no such housing being made for the labours within the lease area however the project has commonly created a temporary housing facility for the work force by facilitating fuel for cooking, septic tank followed by soak pit for domestic effluents (STP-Ultra Filtration Unit), drinking water, medical health care etc. photo of the same is attached as Photo-09.
20	Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria dust eradication, HIV, and health effects on exposure to respirable 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	Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken periodically for permanent and outsider employees along with the pre-medical examination of persons employed, 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 there to. The various tests include PFT, X-Ray, and lung spirometry etc. During the reporting period 05 Nos. of IME and 05 Nos. of PME (client and contractor) have been carried out. The detailed list along with a sample copy of IME/PME is attached as Annexure-09.

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	follow up action wherever required. Occupational Health center shall be established near the mine itself.	
21	Shelter belt i.e. (wind break of 15m width and consisting of at least around the 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 SPCB guidelines. Density of 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.	There are no such human habitation/schools etc. within the ML area. However, the project has covered all the sub-grade dumps with plantation with native species and application of mixed grass seeds along the slopes to stabilize and also to reduce wash off in case of rains during monsoon. A safety zone of 7.5 m width around the ML boundary is being maintained. During the year the project has planted 3500 Nos of saplings inside the ML area(Safety zone & dump).
22	This environmental clearance is subjected to forest clearance under the Forest (Conservation) Act, 1980.	The forest clearance has been obtained over an area of 34.365 ha vide MoEF letter no: F No.8- 216/1992-FC dated 31st March 1993. As per the present circular dated 01.04.2015 from MoEF, Govt. of India the forest clearance over 34.365 Ha will be extended up to the coterminous of the extended lease period.
23	The mining operation shall be restricted to above ground water table and it should not intersect the groundwater table.	The Project proponent working at a depth of 590aMSL which is far above the ground water level and ground water level exist 540 aMSL. The ultimate depth of the bottom of the approval Mining Scheme is at 548m RL. Therefore, intersection of ground water table during the whole life of the ML area shall not be obstructed. However, the Project has carried out a detailed study on hydrology and hydro-

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		geological aspect of the area through an expert agency and base line data developed for future reference.
24	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.	There is no generation of the top soil during mining operations. In case of top soil generation generated in future, it should be stored in an earmarked area and necessary precaution may be taken to preserve its nutrient values.
25	The over burden (OB) generated during the mining operation shall be temporarily 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 28° Back filling shall be done as per approved mining plan; back filling to start from 3rd year onwards of the mining operations and the entire quantity of waste shall be backfilled and liquidated within five years. There shall be no external OB dumps after the 6th year of the mining operations. The backfilled area shall be afforested. Backfilling has to be done in a manner that it is restored to the normal ground level. Monitoring and management of rehabilitated areas should continue till the vegetation is established and becomes self-generating compliance status to be reported to the appropriate authorities.	At present there is 1 OB dump which is active, phase wise plantation and stabilization will be done.
26	The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes. Year wise expenditure for these funds should be reported to the SEIAA, Orissa.	The funds earmarked for environmental protection are being utilized for the same. The year wise environmental expenses are shown in Table No. 05 .

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27	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 Environmental Protection (EP) Act, 1986.	We are abiding by the said conditions.
Sl. No.	Additional Environmental Clearance condition of mining projects vide. OM of MoEF&CC, F.No. 22-34/2018-IA.III dated: 16.01.2020 in respect of Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	Compliance Status
01	The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	We will abide by the condition. At present the mining operation is going on and the mineral is not exhausted at all & it's also duly approved by the IBM in Mining Plan. Therefore, after ceasing of the mining operation or exhaust of minerals, we will undertake re-grassing of the disturbed land due mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. as duly approved in Mining Plan by IBM.

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TABLES

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Table No.1 –CSR Expenses(Oct-21 to March-22)

CSR Expenditure		
Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.		
Sl. No.	Particulars	Expenditure for the year 2021-22 (April-21 to March-22)
1	Education	3.6
2	Health	4.6
3	Drinking Water Facility	0.5
4	Social welfare (Peripheral Activities) & Infrastructure	1.2
5	Electricity	0.4
6	Water Sprinkling (Inter connecting village road etc.)	6.1
TOTAL		16.2

Table No. 02: Compliance to the points raised in Public Hearing

Sl. No.	Public Hearing consents by the Project Proponent	Compliance Status
1	The Project Proponent assured with consultation with Govt. department and as per their advice they will adopt all the measures to keep the sound pollution under control especially during blasting.	Due to availability of soft material there is no blasting is being carried and the excavation work is carried out by engaging excavators only. Anyhow noise is being monitored and the results are well within the prescribed norms.
2	To construct Check dam for Mahadev NasaNalla and for this the project proponent invited the village committee to come with a proposal for the same.	We ensure that natural watercourse of Mahadev Nalla will not be obstructed due to our mining operations. Necessary precautionary measures were well taken in consultation with Govt. bodies to avoid any sort of interference like providing guard wall & check weir at bank of Mahadev Nallah.

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3	Suitable dump management system to minimize the pollution and all wastes are being dumped inside the lease area.	Sub grade is being stacked in an identified area inside ML Area by maintaining proper terracing & slope. It has also developed with garland drain and retaining wall along with native sapling plantation for stabilization of critical areas of dump.
4	Company has formed an Environment cell and they are monitoring this on regular basis to keep this under control.	A separate environmental management cell is in operation under the control of Mines Manager, which is looking after all environmental activities including Environmental Monitoring.
5	The Project proponent will give priority in employing skilled local people such as drivers, drillers, operators, etc. according to their qualification.	Local peoples are being given priority in employing skilled local people such as drivers, drillers, operators, etc. according to their qualification.
6	The Project proponent assured that they will re-open all the schools in Murgabeda Village those are not running at present and will appoint 4 teachers in those Schools on permanent basis.	The School is running effectively with engagement of teaching facilities with appointment of teachers. Study materials like books, slates, pencils etc. are being provided. Mid-day meal is provided at free of cost for class IX & X at Deojhar High School. Bus facility is being provided for Deojhar high school and for Sarswati Sisu Mandir, Bileipada.
7	The project proponent is already supplying drinking water to Murgabeda villages through water tanker and will continue this facility.	2 no. of bore wells with drinking water facilities are provided for the villagers of the Muragbeda, about a population of around 1000 no's.
8	The Project proponent is ready to construct inter village connecting roads in Murgabeda village and they invited proposal from the village committee for the same.	Inter connecting village roads are made up of black top with a length of 1.8 Km .

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9	The project proponent has already opened a dispensary here for locals for availing medical facility free of cost where a doctor is available. One Ambulance is always available there at service.	Medical facilities like dispensary and ambulances are being provided. Medical health camp is being organized at regular intervals for the local villagers with free of cost medicines.
10	Regarding electrification of villages, we have requested the concerned Village committee along with Sarpancha to come forward with the latest status and the proposal so that they can support and assist the village committee for electrification.	It is being carried out with the village committee members by providing materials for Street Light Connections to nearby villages.
11	The Project Proponent assured that they are following all the Govt. rules regarding employment and statutory payments.	It is being followed.
12	The project proponent requested the Murgabeda Temple committee to come with a proposal so that they can consider for its renovation.	Temple renovation work is completed with the proposals of Temple Committee members. The bathing area has been developed with anti-slippery tiles and guard bars and a cloth changing room have provided. Two male and three female labours have deployed for proper up- keep of the temple.

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Table 3 – Six Monthly Compliance Submission details

Sl.No	Compliance Time Period	Date of Submission
1	April 21 to September 21	15.11.2021
2	October 20 to March 21	18.05.2021
3	April 20 to September20	24.11.2020
4	October 2020 to March 2020	20.05.2020
5	April 2019 to September 2019	18.11.2019
6	October 2018 to March 2019	25.04.2019
7	April 2018 to September 2018	20.11.2018
8	October 2017 to March 2018	30.05.2018
9	April 2017 to September 2017	25.11.2017
10	October 2016 to March 2017	25.05.2017
11	April 2016 to September 2016	19.11.2016
12	October 2015 to March 2016	25.05.2016
13	April 2015 to September 2015	16.11.2015

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Table 4- Annual Plantation Details (2021-22)

PLANTATION ANNUAL STATEMENT														
FOR THE YEAR 2021-2022														
Sl. No	Mines Name	ML Area in Ha.	Period	Within ML			Out Side ML			Avenue Plantation			Total	
				No of Trees Planted	Area in Ha	Survival rate	No of Trees Planted	Area in Ha	Survival rate	No of Trees Planted	Area in RKM	Survival rate	No of Trees Planted	Survival rate
1	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	34.365 Ha	April-2021 to March-2022	3500	1.4	60%	500(Deojhar School)	Nil	Nil	Nil	4000	60%

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Table 5-Details of Environmental Expenses

Environmental Expenditure of Deojhar Iron Ore Mining Project of M/s. Tarini Minerals Pvt. Ltd, District, Keonjhar,		
		Cost, Rs. In Lakhs
Sl. No.	Activity	2021-22 (October-21 to March-22)
1	Dry-fog system installed & maintenance	0.1
2	Water tankers two no's for water sprinkling	3
3	Rain water harvesting structures	0.1
4	Site specific sewage treatment plant with maintenance	0.2
5	Service Centre cum ETP & its maintenance	0.1
6	Tyre wash system maintenance	0.1
7	Plantation	2.5
Total amount incurred		6.1

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ANNEXURES

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Annexure – 1: Forest Clearance Copy

F. No. 3-216/1992-FC
Government of India
Ministry of Environment & Forests
(F.C. Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi – 110 003.
Dated: 10th March, 2008

To
The Principal Secretary (Forests),
Government of Orissa,
Bhubaneswar

Sub: Diversion of 36.42 ha of Reserved forest land (Thakurani RF) in Keonjhar district for mining of iron ore by Sri Niranjan Patnaik (now M/s Tarini Minerals (P) Ltd.) - Making the forest clearance co-terminus with Mining Lease period regarding.

Sir,

I am directed to refer to your letter No. 10P (Cons)-20/07/1287 dated 17.07.2007 on the above cited subject, wherein the Ministry of Environment & Forests has been requested to make the forest clearance co-terminus with the revised Mining Lease period in respect of the above said proposal, under Section 2 of the Forest (Conservation) Act, 1980. The State Government of Orissa has also informed that the said Mining Lease has been transferred by the State Government from Sri Niranjan Patnaik to M/s Tarini Minerals P. Ltd. with prior approval of the Ministry of Mines, Government of India.

Ministry of Environment and Forests had accorded approval under Section 2 of the Forest (Conservation) Act, 1980 for diversion of 34.365 ha of forest land in Keonjhar district, Orissa, for mining lease in favour of Shri Niranjan Patnaik for a period of ten years, subject to certain conditions, vide letter dated 31.03.1993

The request of the State Government of Orissa has been examined in the Ministry of Environment and Forests. After considering the above request of the State Government of Orissa and careful examination of all the aspects in detail, the Central Government hereby grants approval to extend the period of diversion of forest land, earlier granted by the Ministry of Environment & Forests under the said Act, to make the forest clearance co-terminus with the period of Mining Lease granted by the State Government of Orissa i.e. upto 31.09.2014. However, it has been observed that prior permission of the Ministry of Environment & Forests has not been obtained while transferring the lease from Sri Niranjan Patnaik to M/s Tarini Minerals P. Ltd. and, therefore, this has been treated as a violation of the Forest(Conservation) Act, 1980 and, it has been decided that the User Agency shall be liable to pay Penal Compensatory Afforestation over an equal amount of non-forest land.

Accordingly the above approval by the Ministry of Environment & Forests shall be subject to the following conditions:-

1. The non-forest land to the extent of 36.42 ha identified for the purpose of Compensatory Afforestation shall be transferred and mutated in favour of the State Forest Deptt followed by its notification as Reserved Forest / Protected Forest.
2. Penal Compensatory Afforestation shall be raised and maintained over an equal amount of non-forest land at the project cost. For this purpose, the User Agency shall identify / make available suitable non-forest land in consultation with the State Government. The non-forest land so identified and made available shall be transferred and mutated in the name of the State Forest Department and shall be declared as Reserved Forest / Protected Forest

10/3/08

Compliance Status of Environmental Clearance Condition – “ Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.” Located near village Deojhar (Thakurani RF) of Keonjhar Dist., Odisha

1. The User Agency should see the term of Wildlife Management Plan as per norms prescribed by the State Government vide letter No. 12196/P&E dated 30.11.2005.
2. Mining activities shall be allowed only after a valid Environmental Clearance for mining in the said area has been obtained by the User Agency.
3. The State Government shall charge the Net Present Value (NPV) under this proposal from the User Agency as per the orders of the Hon'ble Supreme Court of India dated 10.10.2002 and 01.08.2003 in IA No. 566 in WP (C) No. 202/1995 and as per the guidelines issued by this Ministry vide letters No. 5-1/1998-FC (Pt. II) dated 18.09.2003, as well as letter No. 1-2/2006-FC dated 01.10.2006 in this regard.
4. 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 on receipt of the report from the Expert Committee, shall be charged by the State Government from the User Agency. The User Agency shall furnish an undertaking to this effect.
5. All the funds received from the User Agency under the project shall be transferred to in Account No. 344901010070121 of Corporation Bank, Block-II, COO Complex, Phase-II, Bhubaneswar, New India-I-0903.
6. All other conditions stipulated at the time of forest clearance under Section-2 of the Forest (Conservation) Act, 1980 for the mining lease of 34.365 ha of forest land in Keonjhar district, vide this Ministry's letter dated 31.03.1993, shall be complied with by the User Agency.

Yours faithfully,

(A.K. Joshi)

Assistant Inspector General of Forests

Copy to:-

1. The PCCF, Govt. of Orissa, Bhubaneswar.
2. The Nodal Officer, O/S PCCF, Bhubaneswar.
3. The Chief Conservator of Forests (Central), Regional Office, Bhubaneswar.
4. The User Agency.
5. Monitoring Cell of the Ministry.
6. Guard File.

(A.K. Joshi)

Assistant Inspector General of Forests

Compliance Status of Environmental Clearance Condition –“ Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.” Located near village Deojhar (Thakurani RF) of Keonjhar Dist., Odisha

Annexure- 2 : Consent to Operate Copy from OSPCB



CONSENT ORDER
DEOJHAR IRON ORE MINES OF M/S. TARINI MINERALS PVT. LTD..

Page 1 of 13

BY REGD. POST WITH AD

STATE POLLUTION CONTROL BOARD, ODISHA

A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012
Phone-2561909, Fax: 2562822, 2560955 E-mail: paribesh1@ospcbboard.org, Website: www.ospcbboard.org

CONSENT ORDER

No. 2603 / IND - I-CON- 1373 Dt. 14.03.2019 /

CONSENT ORDER NO. 444

Sub: **Consent for discharge of sewage and trade effluent under section 25/26 of Water (PCP) Act, 1974 and for existing / new operation of the plant under section 21 of Air (PCP) Act, 1981.**

Ref: Your Online Application No. 2402344 Dated 06.01.2019 & online reply dated 31.01.2019

Consent to operate is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed thereunder to

Name of the Industry: DEOJHAR IRON ORE MINES OF M/S. TARINI MINERALS PVT. LTD..

Name of the Occupier & Designation: SRI PINAKI MONDAL, MINES MANAGER

Address: AT/PO: GUALI, DIST: KEONJHAR.

This consent order is valid for the period up to 31.03.2024 from the date of issue of this order.

This consent order supersedes the earlier consent order issued vide letter No. 4610 dated 27.03.2017.

Details of Products Manufactured

Sl. No	Product	Quantity
01.	Iron Ore	1.5 MTPA

Details of Mineral Handling Plants /Units

01	Operation of stationary crushing plant of capacity 1x400 TPH
02.	Operation of mobile screening plants of capacity 3X 200 TPH

This consent order is valid for the specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated herein.

Reporting Period: October-2021 to March-2022

Compliance Status of Environmental Clearance Condition –“ Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.” Located near village Deojhar (Thakurani RF) of Keonjhar Dist., Odisha

Annexure – 3 : Approved Mining Scheme Copy from IBM



भारत सरकार GOVERNMENT OF INDIA
खान मंत्रालय MINISTRY OF MINES
भारतीय खान ब्यूरो INDIAN BUREAU OF MINES
क्षेत्रीय खान नियंत्रक के कार्यालय
OFFICE OF THE REGIONAL CONTROLLER OF MINES



By. Regd. Parcel / E-M
Phone: 0674-23524
Tele Fax: 0674-23524
e
ro.bhubaneshwar@ibm.gov
Plot No.149, Pokhari
BHUBANESWAR-7510

No. MS/FM/39-ORI/BHU/2018-19 / 2501

Date: 25.01.2019

To

Shri D. R. Patnaik,
Managing Director,
M/s Tarini Minerals Pvt. Ltd,
X-5, Civil Township, Rourkela,
Pin-769004, Odisha.

Sub:Approval of Review of Mining Plan of Deojhar Iron Ore Mines over an area of 34.365 ha in Keonjhar district of Odisha of M/s Tarini Minerals Private Limited submitted under rule-17 (2) of MCR, 2016.

Ref: -i) Your letter no. nil dated 19.12.2018.

ii) This office letter of even no. dated 19.12.2018.

iii) This office letter of even no. dated 19.12.2018 addressed to the Director of Mines, Govt. of Odisha, copy endorsed to you.

iv) This office letter of even no. dated 03.01.2019.

v) Your letter no. nil dated 16.01.2019 received on 18.01.2019.

Sir,

In exercise of the power delegated to me vide Gazette Notification No. S.O. 1857 (E) dated 18.05.2016, I hereby **Approve** the Review of Mining Plan including Progressive Mine Closure Plan of Deojhar Iron Ore Mines over an area of 34.365 ha of M/s Tarini Minerals Private Limited in Keonjhar district of Odisha State submitted under Rule 17 (2) of Mineral Concession Rules, 2016. This approval is subject to the following conditions:

- I. The Review of Mining Plan is approved without prejudice to any other law applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
- II. The proposals shown on the plates and/or given in the document is based on the lease map /sketch submitted by the applicant/ lessee and is applicable from the date of approval.
- III. It is clarified that the approval of aforesaid Review of Mining Plan does not in any way imply the approval of the Government in terms of any other provision of Mines & Minerals (Development & Regulation) Act, 1957, or the Mineral Concession Rules, 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.
- IV. Indian Bureau of Mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the applicant / lessee.

Contd. Page-2

Reporting Period: October-2021 to March-2022

Compliance Status of Environmental Clearance Condition –“ Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.” Located near village Deojhar (Thakurani RF) of Keonjhar Dist., Odisha

Annexure – 4 – Summarized AAQ Report

Deojhar Iron Ore Mines of M/s Tarini Minerals Pvt. Ltd.							
Summarized Monthly Average Ambient Air Quality Monitoring Report							
Sampling Location	Month	Ambient Air Quality Parameters in $\mu\text{gm}/\text{m}^3$					
		Range	P.M.-10	P.M.-2.5	SO ₂	NO _x	CO
Mine Site Office (AAQ-1)	Oct-21	Avg.	74.88	29.50	10.10	11.13	0.35
	Nov-21	Avg.	66.75	29.50	10.55	11.63	0.48
	Dec-21	Avg.	72.11	24.89	10.81	12.17	0.67
	Jan-22	Avg.	73.50	62.50	10.79	12.71	0.62
	Feb-22	Avg.	75.00	27.88	10.30	11.76	0.57
	Mar-22	Avg.	73.78	25.11	8.42	10.08	0.48
Exit Gate (AAQ-2)	Oct-21	Avg.	76.13	26.38	10.15	11.15	0.44
	Nov-21	Avg.	76.25	29.75	11.25	12.76	0.48
	Dec-21	Avg.	75.33	29.33	11.09	12.50	0.67
	Jan-22	Avg.	74.00	30.38	10.03	12.24	0.70
	Feb-22	Avg.	76.38	29.88	10.76	12.26	0.58
	Mar-22	Avg.	77.00	27.78	10.03	11.76	0.49
Murgabeda Village (AAQ-3)	Oct-21	Avg.	68.50	22.25	9.63	10.64	0.47
	Nov-21	Avg.	71.38	30.25	10.43	11.73	0.58
	Dec-21	Avg.	69.33	24.67	10.74	12.10	0.68
	Jan-22	Avg.	67.25	24.63	9.99	12.08	0.70
	Feb-22	Avg.	70.25	26.25	10.40	11.90	0.54
	Mar-22	Avg.	71.33	27.11	9.68	11.16	0.56
Bileipada Village(AAQ-4)	Oct-21	Avg.	69.25	24.25	10.61	11.96	0.50
	Nov-21	Avg.	67.13	24.50	9.79	11.18	0.53
	Dec-21	Avg.	72.00	24.33	10.77	12.10	0.63
	Jan-22	Avg.	66.63	23.88	10.75	12.78	0.69
	Feb-22	Avg.	70.25	26.25	10.40	11.90	0.54
	Mar-22	Avg.	72.44	27.67	9.28	11.17	0.56
Deojhar Village (AAQ-5)	Oct-21	Avg.	72.00	22.75	10.88	12.10	0.64
	Nov-21	Avg.	70.13	29.00	11.36	12.98	0.51
	Dec-21	Avg.	69.78	25.11	11.54	12.97	0.66
	Jan-22	Avg.	68.38	25.50	11.04	12.51	0.54
	Feb-22	Avg.	71.00	26.50	10.83	12.35	0.54
	Mar-22	Avg.	71.00	25.67	8.50	10.17	0.57
Mahadevnasa Village (AAQ-6)	Oct-21	Avg.	68.00	21.25	9.93	11.33	0.51
	Nov-21	Avg.	64.75	24.13	9.59	11.79	0.39
	Dec-21	Avg.	70.44	24.11	11.77	13.24	0.69
	Jan-22	Avg.	67.50	25.00	10.50	12.33	0.66
	Feb-22	Avg.	70.13	25.88	8.94	10.50	0.44
	Mar-22	Avg.	69.78	24.22	8.77	10.49	0.54

Note: Analysis & report provided by B.S Envi Tech Pvt. Ltd., Secundrabad, Telangana an MOEFCC & NABL accredited lab.

Reporting Period: October-2021 to March-2022

Compliance Status of Environmental Clearance Condition –“ Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.” Located near village Deojhar (Thakurani RF) of Keonjhar Dist., Odisha

Annexure – 5 : Wild Life Conservation Plan Copy

WARDEN,ORISSA⁵TH FLOOR, B.D.A. APARTMENT, PRAKRUTI BHAWAN,
NILAKANTHA NAGAR, BHUBANESWAR- 751012.

Memo No. 1238 Dt. 15.2.2010
1WL-C-FC-524/09

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

Sub: Approval of Site Specific Wildlife Conservation Plan for Deojhar Iron Ore Mines in village Deojhar in Keonjhar district

Sir,

I am directed to inform you that the Site Specific Wildlife Conservation Plan for Deojhar Iron Ore Mines in village Deojhar in Keonjhar district of M/s Tarini Minerals Pvt. Ltd. has been approved by PCCF(WL) & Chief Wildlife Warden, Orissa with financial forecast of Rs.54.00 lakhs for the following activities

1. For activities to be implemented by User agency in Project Area
----- Rs 13.00 lakhs
 2. For activities to be implemented by
DFO, Keonjhar Division in the Project Impact Area
----- Rs 41.00 lakhs
- Total Rs. 54.00 lakhs

User agency will execute activities for Rs.13 lakhs in the lease hold area under the guidance of DFO, Keonjhar Division & Rs.41.00 lakhs may be deposited with DFO Keonjhar division under CAMPA for activities to be executed by DFO in the zone of influence.

Memo No. 1239 dt. 15.2.2010

Copy forwarded to the DFO, Keonjhar Division for information & necessary action with reference to Memo No. 2562 dt. 8.7.09 of CF., Rourakela Circle.

[Signature]
Conservator of Forests (WL)

Memo No. 1240 Dt. 15.2.2010

Copy forwarded to CF, Rourkela Circle for information & necessary action with reference to his office Memo No. 2561 dt.8.7.09

[Signature]
Conservator of Forests (WL)

Memo No. 1241 dt. 15.2.2010

Copy forwarded to the M/s Tarini Minerals Pvt. Ltd, Bonikela, Joda, Keonjhar for information & necessary action with reference to his letter dated 22.9.09

[Signature]
Conservator of Forests (WL)

Enc: One No. approved S-I.
WL Conservator Admin

[Signature]
Conservator of Forests (WL)

Compliance Status of Environmental Clearance Condition –“ Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.” Located near village Deojhar (Thakurani RF) of Keonjhar Dist., Odisha

Annexure – 6 : Fugitive Dust Monitoring Report

Deojhar Iron Ore Mines of M/s Tarini Minerals Pvt. Ltd.			
Monthly Average Fugitive Dust Monitoring Report			
Sampling Location	Month	Fugitive Dust Monitoring Parameters in $\mu\text{gm}/\text{m}^3$	
Mines Face/ Haulage road	Oct-21	Avg.	615.25
	Nov-21	Avg.	693.25
	Dec-21	Avg.	651.38
	Jan-22	Avg.	662.50
	Feb-22	Avg.	741.43
	Mar-22	Avg.	654.13
Screening Plant	Oct-21	Avg.	672.13
	Nov-21	Avg.	700.50
	Dec-21	Avg.	733.63
	Jan-22	Avg.	712.50
	Feb-22	Avg.	768.13
	Mar-22	Avg.	765.25
Loading & Unloading point	Oct-21	Avg.	624.88
	Nov-21	Avg.	626.75
	Dec-21	Avg.	658.88
	Jan-22	Avg.	685.38
	Feb-22	Avg.	677.88
	Mar-22	Avg.	681.00
Note: Analysis & report provided by B.S Envi Tech Pvt. Ltd., Secundrabad, Telangana an MOEFCC & NABL accredited lab.			

Reporting Period: October-2021 to March-2022

Compliance Status of Environmental Clearance Condition –“ Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.” Located near village Deojhar (Thakurani RF) of Keonjhar Dist., Odisha

Annexure – 7: Ground Water Monitoring Report

Deojhar Iron Ore Mines						
M/s Tarini Minerals Pvt. Ltd.						
Ground Water Quality Report						
October-2021						
Location			Murgabeda Village	Daldir Village	Deojhar Village	Bileipada Village
Sl. No.	Test Parameter	Units	Result			
1	Odour	...	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	<5	<5	<5	<5
3	pH	..	6.68	6.73	6.71	6.75
4	Turbidity	NTU	<1	<1	<1	<1
5	Total Hardness as CaCO ₃	mg/l	72	84	92	128
6	Iron as Fe	mg/l	0.09	0.08	0.11	0.13
7	Chlorides as Cl	mg/l	38	50	40	54
8	Total Dissolved solids @105 °C	mg/l	154	302	276	288
9	Calcium as Ca	mg/l	20.0	24	28	40
10	Magnesium as Mg	mg/l	5.3	5.8	5.3	6.8
11	Sulphate as SO ₄	mg/l	25	37	34	36
12	Nitrate as NO ₃	mg/l	16	22	19	30
13	Flouride as F ⁻	mg/l	0.29	0.42	0.45	0.51
14	Total Alkalinity as CaCO ₃	mg/l	26	106	102	86
15	Boron as B	mg/l	< 0.10	< 0.10	< 0.10	<0.10
16	Aluminium as Al	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
17	Copper as Cu	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
18	Manganese as Mn	mg/l	<0.02	<0.02	<0.02	< 0.02
19	Selenium as Se	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
20	Zinc as Zn	mg/l	<0.02	<0.02	<0.02	< 0.02
21	Cadmium as Cd	mg/l	< 0.003	< 0.003	< 0.003	< 0.003
22	Lead as Pb	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
23	Mercury as Hg	mg/l	< 0.001	< 0.001	< 0.001	< 0.001
24	Total Arsenic as As	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
25	Total Chromimum as Cr	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
26	Total Coliforms	CFU/ 100 ml	Absent	Absent	Absent	Absent

Reporting Period: October-2021 to March-2022

Compliance Status of Environmental Clearance Condition –“ Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.” Located near village Deojhar (Thakurani RF) of Keonjhar Dist., Odisha

Deojhar Iron Ore Mines						
M/s Tarini Minerals Pvt. Ltd.						
Ground Water Quality Report						
January-2022						
Location			Murgabeda Village	Daldir Village	Deojhar Village	Bileipada Village
Sl. No.	Test Parameter	Units	Result			
1	Odour	...	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	<5	<5	<5	<5
3	pH	..	6.79	6.87	6.73	6.67
4	Turbidity	NTU	<1	<1	<1	<1
5	Total Hardness as CaCO ₃	mg/l	94	116	96	118
6	Iron as Fe	mg/l	0.11	0.09	0.12	0.1
7	Chlorides as Cl	mg/l	56	62	48	62
8	Total Dissolved solids @105 °C	mg/l	214	316	294	308
9	Calcium as Ca	mg/l	32.0	40	30	40
10	Magnesium as Mg	mg/l	3.4	3.9	5.1	4.4
11	Sulphate as SO ₄	mg/l	29	35	40	45
12	Nitrate as NO ₃	mg/l	21	28	26	31
13	Flouride as F ⁻	mg/l	0.34	0.51	0.48	0.52
14	Total Alkalinity as CaCO ₃	mg/l	38	94	92	74
15	Boron as B	mg/l	< 0.10	< 0.10	< 0.10	<0.10
16	Aluminium as Al	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
17	Copper as Cu	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
18	Manganese as Mn	mg/l	<0.02	<0.02	<0.02	< 0.02
19	Selenium as Se	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
20	Zinc as Zn	mg/l	<0.02	<0.02	<0.02	< 0.02
21	Cadmium as Cd	mg/l	< 0.003	< 0.003	< 0.003	< 0.003
22	Lead as Pb	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
23	Mercury as Hg	mg/l	< 0.001	< 0.001	< 0.001	< 0.001
24	Total Arsenic as As	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
25	Total Chromimum as Cr	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
26	Total Coliforms	CFU/ 100 ml	Absent	Absent	Absent	Absent

Note – The above tests are carried by B.S Envi. Tech P. Ltd Laboratory & its accredited by NABL and MoEF&CC.

Reporting Period: October-2021 to March-2022

Compliance Status of Environmental Clearance Condition –“ Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.” Located near village Deojhar (Thakurani RF) of Keonjhar Dist., Odisha

Annexure – 8 : Surface Water Monitoring Report

Deojhar Iron Ore Mines							
M/s Tarini Minerals Pvt. Ltd.							
Surface Water Quality Report							
October-2021							
Location			Suna Nadi U/S	Suna Nadi D/S	Mahadev Nallah U/S	Mahadev Nallah D/S	Baitarani River
Sl. No.	Test Parameter	Units	Result				
1	pH	...	6.65	6.72	6.68	6.76	6.67
2	Oil & Grease	mg/l	< 1	< 1	<1	< 1	<1
3	Total Suspended Solids	mg/l	68	90	68	102	62
4	Total Dissolved Solids @ 105°C	mg/l	184	208	202	216	176
5	BOD for 3 days at 27°C	mg/l	10	17	16	25	11
6	COD	mg/l	64	92	120	144	64
7	Chloride as Cl	mg/l	8.5	13.5	9.5	17.5	9.2
8	Phosphate as P	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
9	Sulphide as S ²⁻	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
10	Sulphates as SO ₄	mg/l	9.1	10	11	16	6.8
11	Total Volatile Suspended Solids (MLVSS)	mg/l	18	30	22	38	14
12	Colour	Hazen units	5	10	5	10	10
13	Odour	.....	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
14	Iron as Fe	mg/l	0.19	0.23	0.24	0.29	0.12
15	Flouride as F ⁻	mg/l	0.24	0.27	0.27	0.34	0.17
16	Boron as B	mg/l	<0.10	<0.10	< 0.10	< 0.10	< 0.10
17	Percent Sodium	....	40.9	41.5	40.8	43.5	40.8
18	Residual Sodium Carbonate	mg/l	42	53	53	43	48
19	Copper as Cu	mg/l	<0.02	<0.02	< 0.02	< 0.02	< 0.02
20	Manganese as Mn	mg/l	<0.02	<0.02	< 0.02	< 0.02	< 0.02
21	Selenium as Se	mg/l	<0.01	< 0.01	< 0.01	< 0.01	< 0.01
22	Zinc as Zn	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
23	Cadmimum as Cd	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
24	Lead as Pb	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Reporting Period: October-2021 to March-2022

Compliance Status of Environmental Clearance Condition –“ Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.” Located near village Deojhar (Thakurani RF) of Keonjhar Dist., Odisha

25	Mercury as Hg	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
26	Nickel as Ni	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
27	Total Arsenic as As	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
28	Total Chromium as Cr	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
29	Total Coliforms	CFU/100 ml	80	110	110	130	60

Deojhar Iron Ore Mines							
M/s Tarini Minerals Pvt. Ltd.							
Surface Water Quality Report							
January-2022							
Location			Suna Nadi U/S	Suna Nadi D/S	Mahadev Nallah U/S	Mahadev Nallah D/S	Baitarani River
Sl. No.	Test Parameter	Units	Result				
1	pH	...	6.65	6.82	6.67	6.75	6.58
2	Oil & Grease	mg/l	< 1	< 1	<1	< 1	<1
3	Total Suspended Solids	mg/l	98	114	84	120	104
4	Total Dissolved Solids @ 105°C	mg/l	236	248	202	256	226
5	BOD for 3 days at 27°C	mg/l	10	17	13	25	16
6	COD	mg/l	72	108	108	164	132
7	Chloride as Cl	mg/l	12.4	17.9	14.2	24.9	21.4
8	Phosphate as P	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
9	Sulphide as S ²⁻	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
10	Sulphates as SO ₄	mg/l	14	19	15	28	12
11	Total Volatile Suspended Solids (MLVSS)	mg/l	26	34	28	40	34
12	Colour	Hazen units	5	10	5	15	10
13	Odour	.....	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
14	Iron as Fe	mg/l	0.25	0.28	0.18	0.29	0.18
15	Flouride as F ⁻	mg/l	0.31	0.34	0.27	0.34	0.23
16	Boron as B	mg/l	<0.10	<0.10	< 0.10	< 0.10	< 0.10
17	Percent Sodium	....	41.2	43.5	40.1	43.5	40.9
18	Residual Sodium Carbonate	mg/l	58	53	37	32	32
19	Copper as Cu	mg/l	<0.02	<0.02	< 0.02	< 0.02	< 0.02

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20	Manganese as Mn	mg/l	<0.02	<0.02	< 0.02	< 0.02	< 0.02
21	Selenium as Se	mg/l	<0.01	< 0.01	< 0.01	< 0.01	< 0.01
22	Zinc as Zn	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
23	Cadmimum as Cd	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
24	Lead as Pb	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
25	Mercury as Hg	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
26	Nickel as Ni	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
27	Total Arsenic as As	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
28	Total Chromimum as Cr	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
29	Total Coliforms	CFU/100 ml	110	140	140	170	70

Note – The above tests are carried by B.S Envi. Tech P. Ltd Laboratory & its accredited by NABL and MoEF&CC.

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Annexure – 9: List of IME Carried out & Sample IME/PME test report

Category of Employees	IME		PME	
	Contractor	Owner	Contractor	Owner
Workers	5	0	0	3
Staff	0	0	0	0
Executive / Managers	0	0	0	2
TOTAL	5	0	0	5

Report of Medical Examination Under Rule 29 B
(To be issued in Triplicate) **

9d/1000/129

CERTIFICATE NO. T10175

Sr. Engineer, Deojhar

Certified that Sri/Smt. employed as in mine. Form B No. has been examined for an initial/periodical* medical examination. He/She appears to be 47 years of age. The findings of the examination authority are given in the attached sheet, it is considered that Sri/Shrimati Bankar Ghosh

(a)* is medically fit for any employment in mines

(b)* is suffering from and is medically unfit for

(i) any employment in mine, or

(ii) any employment below ground, or

(iii) any employment or work

(c)* is suffering from and should get this disability* cured/controlled and should be again examined within a period of 15 days months. He/She* will appear for re-examination with the result of test of and the opinion of specialist from

He/She* may be permitted/nor* permitted to carry on his/her duties during this period.

Fit for duty
RC
11/11/2022

Dr. Rishi Narayan Kar
Regd. No. 5220 B.S.S.S.
Sr. Medical Officer
Tarini Earthmovers (P) Ltd.

RC
11/11/2022

Signature of the Examining Authority

Name and Designation in Block Letters
Dr. Rishi Narayan Kar
Regd. No. 5220 B.S.S.S.
Sr. Medical Officer
Tarini Earthmovers (P) Ltd.

Place : Hi-Tech Diagnostic Centre, Joda

Date : 12/2/2022

P.P. 140/22
FAS-102 side, P.P.S. 141 side
is fit to resume duty
with medication
for advice by Dr. P. G.
Satisfactory, medicine specialist

* Delete whatever not applicable
** Original - To be kept with Examining Authority.
Pink Copy - To be handed over to Person Concerned.
Yellow Copy - To be sent to the concerned Manager of the Mine

RC
11/3/2022

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PHOTOGRAPHS

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Photo-1: Mobile Water Tanker for dust suppression



Photo-2: Truck Tire wash system



Photo-3: Environment monitoring & sampling



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Photo-4: Showing Check weirs, Settling pond and Garland drain



Photo-5: Retaining wall at toe of dumps

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Photo-6: Safety zone plantation and dump plantation



Photo-7: Mineral dispatch road black topped with dispatch vehicles with tarpaulin cover on top

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Photo-8: Roof top rain water harvesting along with village pond for rain water harvesting



Photo-9: STP for treatment of Domestic Waste Water (Ultra Filtration Unit) & its utilization in green belt development

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ENVIRONMENT MONITORING REPORTS

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