

# TARINI MINERALS PVT. LTD.

(A UNIT OF D.R. PATNAIK & ALTRADE GROUP)

Ref. No.: DIOM/TM/EC-COMP/21-22- 83

Date: 15.11.2021

**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.  
E Mail: [seiaaorissa@gmail.com](mailto:seiaaorissa@gmail.com)

Sub: **Half yearly Environmental Clearance Compliance Report of Deojhar Iron Ore Mining Project of M/s. Tarini Minerals Pvt.Ltd. for the period, April-2021 to September- 2021.**

Ref: 1. SEIAA Clearance letter no. SEIAA/26/9, dated 27.11.2009 & 3427/SEIAA, dt: 30.05.2015  
2. SEIAA (Odisha) Ref no. 3427/SEIAA, dated 30.05.2015  
3. MoEF&CC notification no. 4624 (Published in Gazette of India) dt. 26.11.2018

Dear Sir,

With reference to the above-cited subject and gazette notification, we are herewith sending the six-monthly compliance report in soft copy by Email i.e. roez.bsr-mef@nic.in&seiaaorissa@gmail.com, and also uploading the same in our company website i.e. www.diom-tm.com with comprehensive data analysis reports (supporting photographs and monitoring reports) for the period **April to September 2021 in respect of Deojhar Iron Ore Mines of M/s Tarini Minerals Pvt. Ltd.**

This for your kind information, please.

Yours Faithfully

**For M/s. Tarini Minerals Pvt. Ltd**



**Mines Manager**  
**Deojhar Iron Ore Mines** **Mines Manager**  
**Deojhar Iron Mines**  
**M/s. Tarini Minerals (P) Ltd.**

Encl. As above

# TARINI MINERALS PVT. LTD.

LAUREL OF U.S. PATENT & TRADE MARKS

## Copy to:

1. The Director (S), Regional Office (EZ), Ministry of Environment, Forest & Climate Change, A-31, Chandrasekharpur, Bhubaneswar.  
E mail: [roez.bsr-mef@nic.in](mailto:roez.bsr-mef@nic.in)
2. The Zonal Officer, Central Pollution Control Board, Eastern Zonal Office, Kolkata, E mail: [zokolkatta.cpcb@nic.in](mailto:zokolkatta.cpcb@nic.in)
3. The Chairman, State Pollution Control Board, Orissa, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar - 751012,  
E mail: [paribesh1@ospcboard.org](mailto:paribesh1@ospcboard.org)
4. The Regional Director, Central Ground Water Board, Government of India, South Eastern Region, Bhubaneswar - 751030.  
E mail: [rdser-cgwb@nic.in](mailto:rdser-cgwb@nic.in)

For your kind information, please

Yours faithfully,

For M/s. Tarini Minerals Pvt. Ltd.

Mines Manager

Geopraj Khatun Ore Mines, Mines Manager

Location: Bhubaneswar

Attn: Tarini Minerals Pvt. Ltd.

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: April-2021 to September-2021

### 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](http://www.diom-tm.com)

Reporting Period: April-2021 to September-2021

**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**

**A. SPECIFIC CONDITIONS**

<b>SL. No.</b>	<b>SPECIFIC CONDITION</b>	<b>COMPLIANCE</b>
1	<p><b>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.</b></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 &amp; 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&amp;CC &amp; SPCB guidelines for Air, Water, Noise etc.</p> <p>The photo of the same is enclosed as <b>photo-1,2,3,4&amp;5.</b></p>
2	<p><b>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</b></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 “<b>JANASADHANA</b>” for the socio-economic development of the local people belongs to adjoining villages. A</p>

**Reporting Period: April-2021 to September-2021**

**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**

	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.	detailed implementation status report of the same is given in <b>Annexure # 1</b> .
3	The applicant will comply with the points concerns and issues raised by the people during public hearing on 4 <sup>th</sup> 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 <b>Table - 2</b> .
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 <b>Annexure - 1</b> ), Consent to Operate from SPCB, Orissa vide letter No.: 2603/IND-I-CON-1373 date 14.03.2019 (copy attached as <b>Annexure - 2</b> ), 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 <b>Annexure - 3</b> ).
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 <sup>st</sup> June and 1 <sup>st</sup> 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 <b>Table no.03</b> .

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**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**

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 <b>Annexure-04</b>.</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>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	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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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 &amp; check weirs to restrict the mixing of undesired substances in nearby streams &amp; also established guard wall along the sides of nallas.</p> <p>The copy of the same is attached as <b>Annexure — 5</b> (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 following as per the</p>																		

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**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**

	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.	approved mining 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. In this regard, the project has covered the dumps with application of mixed grass seeds along the slopes to stabilize and also to reduce wash off in case of rains during monsoon. The project has done cumulatively 44, 680 numbers of saplings in and around the ML area till Sept-2021 out of which 600 Nos. have has been planted during April 21-Sept-21 and distribution of 500 nos. of saplings with different varieties of native species in the safety zone photo of the same is attached as <b>photo – 4 &amp; 7</b> . Plantation details have been given in <b>table – 4</b> .
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	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

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	water balance.	<p>structures in the mines areas towards recharge of the ground water.</p> <p>c. Steps have been taken to achieve zero water balance like implementation of STP (Ultra Filtration Unit) for treatment of domestic effluent and reuse of the treated water for mines dust suppression and nearby gardening purpose.</p>
12	<b>Maintenance of roads through which transportation of ores are undertaken shall be carried by the project regularly at its own cost.</b>	<p>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 &amp; 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.</p> <p>The photo of the same is attached as <b>photo # 13.</b></p>
13	<b>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.</b>	<p>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 <b>Annexure – 6.</b></p>
14	<b>Transportation of ore shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no</b>	<p>The steps are being followed by proper care towards public roads to ensure that the trucks should not be overloaded</p>

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	<b>spillage of ore /dust takes place.</b>	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 <b>photo # 13.</b>
15	<b>Rain water harvesting shall be undertaken to recharge the ground water source.</b>	In the entire area, where ever possibility of wash off, flow of sediments etc. is anticipated retaining wall, garland drain, check weir 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 <b>Photo -</b> .
16	<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>	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 <b>Annexure – 7 &amp; 8.</b>
17	<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</b>	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

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	material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.	maintenance. Stabilization of the dumps being done with the application of mixed grass seeds towards vegetation and dump slope stabilization. The photos regarding the same have been attached as <b>Photo -</b>
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.
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	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 03 Nos. of PME (client and contractor) has been carried out.

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	<p>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 itself.</p>	<p>The detailed list along with a sample copy of IME/PME is attached as <b>Annexure-09</b>.</p>
21	<p><b>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.</b></p>	<p>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.</p> <p>A safety zone of 7.5 m width around the ML boundary is being maintained.</p> <p>The project has cumulatively done 44,680 numbers of saplings in and around the ML area till date with different varieties of native species in the safety zone, &amp; peripheral area of ML.</p>
22	<p><b>This environmental clearance is subjected to forest clearance under the Forest (Conservation) Act, 1980.</b></p>	<p>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.</p>
23	<p><b>The mining operation shall be restricted to above ground water table and it should not intersect the groundwater table.</b></p>	<p>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</p>

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		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-geological aspect of the area through an expert agency and base line data developed for future reference.
24	<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>	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	<b>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.</b>	At present there is 1 OB dump which is active, phase wise plantation and stabilization will be done.
26	<b>The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other</b>	The funds earmarked for environmental protection are being utilized for the same. The year wise environmental expenses are shown in <b>table No. 05</b> .

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	purposes. Year wise expenditure for these funds should be reported to the SEIAA, Orissa.	
27	<b>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.</b>	We are abiding by the said conditions.
Sl. No.	<b>Additional Environmental Clearance condition of mining projects vide. OM of MoEF&amp;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.</b>	<b>Compliance Status</b>
01	<b>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.</b>	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**

**Reporting Period: April-2021 to September-2021**

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

**Table No.1 –CSR Expenses(April-21 to Sept-21)**

CSR Expenditure		
Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.		
Sl. No.	Particulars	Expenditure for the year 2021-22 (April-21 to Sept-21)
1	Education	1.6
2	Health	2.1
3	Drinking Water Facility	0.3
4	Social welfare (Peripheral Activities)	0.4
5	Electricity	0.2
6	Water Sprinkling (Inter connecting village road etc.)	3.6
TOTAL		8.3

**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, copy is enclosed in <b>Annexure –1</b> .
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 &

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		check weir at bank of Mahadev Nallah.
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	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.

**Reporting Period: April-2021 to September-2021**



**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**

	<p>tanker and will continue this facility.</p>	
8	<p>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.</p>	<p>Inter connecting village roads are made up of black top in length of 1.8 Km to suppress the dust.</p> <p>The photo of the same is enclosed as <b>photo 5.</b></p>
9	<p>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.</p>	<p>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.</p> <p>The photo of the same is enclosed as <b>photo 6.</b></p>
10	<p>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.</p>	<p>It is being carried out with the village committee members by providing materials for Street Light Connections to nearby villages.</p>
11	<p>The Project Proponent assured that they are following all the Govt. rules regarding employment and statutory payments.</p>	<p>It is being followed.</p>
12	<p>The project proponent requested the Murgabeda Temple committee to come with a proposal so that they can consider for its renovation.</p>	<p>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.</p>

**Reporting Period: April-2021 to September-2021**

**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**

**Table 3 – Six Monthly Compliance Submission details**

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

**Table 4- Plantation Details**

<b>Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.</b>				
SI.No	Year	No. of Sapling	Location	Name of Saplings
01	2015 - 2016	Nil	....	.....
02	2016 - 2017	1300	Dump, Safety zone (Gap filling)	Neem, Karanja, Krushnachuda, Radhachude, Sal, Chatian, Sisoo, Mango, Saguan etc.
03	2017 - 2018	8020	Dump, Safety zone (Gap filling) & outside	
04	2018-2019	800	Safety zone (Gap filling) & outside	
05	2019-2020	1300	Safety zone (Gap filling) & outside	
06	2020-2021	1510	Safety zone (Gap filling) & bench plantation	
07	2021-22	600	Safety zone (Gap filling) & Dump gap filling	

**Reporting Period: April-2021 to September-2021**

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

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 (April-21 to September-21)
1	Dry-fog system installed & maintenance	0.2
2	Water tankers two no's for water sprinkling	3.5
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	6
7	Plantation	1.9
<b>Total amount incurred</b>		<b>12</b>

Reporting Period: April-2021 to September-2021

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

# **ANNEXURES**

Reporting Period: April-2021 to September-2021

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 – 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: 10<sup>th</sup> 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. 13F (Cons)/2007/1287 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 Sri 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 Pecal 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. Pecal 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.

*Handwritten signature/initials*

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. 344901010070123 of Corporation Bank, Block-II, COO Complex, Phase-II, Koshi Road, New Delhi-110023.
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/o 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

Reporting Period: April-2021 to September-2021

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@ospcb.org](mailto:paribesh1@ospcb.org), Website: [www.ospcb.org](http://www.ospcb.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: April-2021 to September-2021**

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  
el  
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: April-2021 to September-2021



**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.							
Summzered Monthly Average Ambient Air Quality Monitoring Report							
Sampling Location	Month	Ambient Air Quality Parameters in µgm/m <sup>3</sup>					
		Range	P.M-10	P.M.-2.5	SO <sub>2</sub>	NO <sub>x</sub>	CO
Mine Site Office (AAQ-1)	Apr-21	<b>Avg.</b>	76.00	25.25	10.48	12.33	0.38
	May-21	<b>Avg.</b>	70.25	23.50	9.40	11.76	0.45
	Jun-21	<b>Avg.</b>	70.63	25.75	9.94	11.46	0.54
	Jul-21	<b>Avg.</b>	63.50	28.00	9.70	11.53	0.49
	Aug-21	<b>Avg.</b>	70.11	33.67	8.09	8.86	0.37
	Sep-21	<b>Avg.</b>	75.88	26.63	10.55	11.63	0.50
Exit Gate (AAQ-2)	Apr-21	<b>Avg.</b>	74.88	24.88	10.34	11.89	0.59
	May-21	<b>Avg.</b>	74.50	26.00	9.39	10.59	0.55
	Jun-21	<b>Avg.</b>	68.38	25.38	10.05	11.54	0.53
	Jul-21	<b>Avg.</b>	60.88	24.25	9.79	10.90	0.46
	Aug-21	<b>Avg.</b>	78.22	39.00	8.28	9.12	0.30
	Sep-21	<b>Avg.</b>	77.13	25.63	10.80	12.08	0.53
Murgabeda Village (AAQ-3)	Apr-21	<b>Avg.</b>	75.13	25.75	9.51	10.70	0.48
	May-21	<b>Avg.</b>	68.50	20.25	10.69	12.29	0.42
	Jun-21	<b>Avg.</b>	65.25	23.50	10.10	11.55	0.49
	Jul-21	<b>Avg.</b>	43.75	22.88	10.35	12.33	0.37
	Aug-21	<b>Avg.</b>	59.33	26.00	7.39	8.26	0.14
	Sep-21	<b>Avg.</b>	64.75	17.25	10.43	11.83	0.53
Bileipada Village(AAQ-4)	Apr-21	<b>Avg.</b>	65.00	20.50	9.61	11.25	0.44
	May-21	<b>Avg.</b>	69.13	19.75	10.79	12.44	0.57
	Jun-21	<b>Avg.</b>	65.13	23.63	11.13	12.60	0.59
	Jul-21	<b>Avg.</b>	50.50	21.38	9.73	12.05	0.53
	Aug-21	<b>Avg.</b>	60.11	20.67	7.29	8.48	0.16
	Sep-21	<b>Avg.</b>	61.50	16.63	11.40	12.93	0.58
Deojhar Village (AAQ-5)	Jul-21	<b>Avg.</b>	53.25	21.13	9.93	11.95	0.51
	Aug-21	<b>Avg.</b>	62.33	21.22	8.20	9.03	0.19
	Sep-21	<b>Avg.</b>	64.50	19.75	10.63	11.90	0.48
Mahadev Nasa (AAQ-6)	Jul-21	<b>Avg.</b>	52.38	19.88	10.01	12.11	0.51
	Aug-21	<b>Avg.</b>	61.78	24.44	7.30	8.50	0.38
	Sep-21	<b>Avg.</b>	60.50	14.75	10.84	12.25	0.48

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

**Reporting Period: April-2021 to September-2021**

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,ORISSA 5<sup>TH</sup> 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. approval S-I.  
WL Conservator. Adm.*

*[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	Apr-21	<b>Avg.</b>	585.63
	May-21	<b>Avg.</b>	563.75
	Jun-21	<b>Avg.</b>	660.50
	Jul-21	<b>Avg.</b>	453.75
	Aug-21	<b>Avg.</b>	514.50
	Sep-21	<b>Avg.</b>	470.38
Screening Plant	Apr-21	<b>Avg.</b>	708.13
	May-21	<b>Avg.</b>	563.38
	Jun-21	<b>Avg.</b>	673.00
	Jul-21	<b>Avg.</b>	482.13
	Aug-21	<b>Avg.</b>	547.13
	Sep-21	<b>Avg.</b>	471.13
Loading & Unloading point	Apr-21	<b>Avg.</b>	662.63
	May-21	<b>Avg.</b>	592.13
	Jun-21	<b>Avg.</b>	664.25
	Jul-21	<b>Avg.</b>	426.25
	Aug-21	<b>Avg.</b>	525.75
	Sep-21	<b>Avg.</b>	465.75
Note: Analysis & report provided by B.S Envi Tech Pvt. Ltd., Secundrabad, Telangana an MOEFCC & NABL accredited lab.			

**Reporting Period: April-2021 to September-2021**

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**

<b>Deojhar Iron Ore Mines</b>						
<b>M/s Tarini Minerals Pvt. Ltd.</b>						
<b>Ground Water Quality Report</b>						
<b>Apr-21</b>						
<b>Location</b>			<b>Murgabeda Village</b>	<b>Daldir Village</b>	<b>Deojhar Village</b>	<b>Bileipada Village</b>
<b>Sl. No.</b>	<b>Test Parameter</b>	<b>Units</b>	<b>Result</b>			
1	Odour	...	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	<5	<5	<5	<5
3	pH	..	6.75	6.72	6.75	6.8
4	Turbidity	NTU	<1	<1	<1	<1
5	Total Hardness as CaCO <sub>3</sub>	mg/l	49	113	145	188
6	Iron as Fe	mg/l	0.1	0.05	0.12	0.1
7	Chlorides as Cl	mg/l	36	56	310	56
8	Total Dissolved solids @105 °C	mg/l	128	315	328	312
9	Calcium as Ca	mg/l	15.0	32	45	49
10	Magnesium as Mg	mg/l	3.1	8.1	8	16
11	Sulphate as SO <sub>4</sub>	mg/l	18	45	21	32
12	Nitrate as NO <sub>3</sub>	mg/l	10	20	16	21
13	Flouride as F	mg/l	0.22	0.63	0.47	0.6
14	Total Alkalinity as CaCO <sub>3</sub>	mg/l	28	142	163	129
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: April-2021 to September-2021**

**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**

<b>Deojhar Iron Ore Mines</b>						
<b>M/s Tarini Minerals Pvt. Ltd.</b>						
<b>Ground Water Quality Report</b>						
<b>Jul-21</b>						
<b>Location</b>			<b>Murgabeda Village</b>	<b>Daldir Village</b>	<b>Deojhar Village</b>	<b>Bileipada Village</b>
<b>Sl. No.</b>	<b>Test Parameter</b>	<b>Units</b>	<b>Result</b>			
1	Odour	...	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	<5	<5	<5	<5
3	pH	..	6.64	6.74	6.75	6.8
4	Turbidity	NTU	<1	<1	<1	<1
5	Total Hardness as CaCO <sub>3</sub>	mg/l	60	96	84	136
6	Iron as Fe	mg/l	0.08	0.08	0.11	0.12
7	Chlorides as Cl	mg/l	35	44	36	52
8	Total Dissolved solids @105 °C	mg/l	132	310	268	304
9	Calcium as Ca	mg/l	16.0	32	24	40
10	Magnesium as Mg	mg/l	4.9	3.9	5.8	8.7
11	Sulphate as SO <sub>4</sub>	mg/l	17	41	31	38
12	Nitrate as NO <sub>3</sub>	mg/l	14	20	16	32
13	Flouride as F	mg/l	0.23	0.47	0.47	0.47
14	Total Alkalinity as CaCO <sub>3</sub>	mg/l	24	118	108	94
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 Chromium 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: April-2021 to September-2021**

**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**

<b>Deojhar Iron Ore Mines</b>							
<b>M/s Tarini Minerals Pvt. Ltd.</b>							
<b>Surface Water Quality Report</b>							
<b>Apr-21</b>							
<b>Location</b>			<b>SunaNadi U/S</b>	<b>SunaNadi D/S</b>	<b>MahadevNallah U/S</b>	<b>MahadevNallah D/S</b>	<b>Baitarani River</b>
<b>Sl. No.</b>	<b>Test Parameter</b>	<b>Units</b>	<b>Result</b>				
1	pH	...	6.65	6.85	6.75	6.85	6.82
2	Oil & Grease	mg/l	< 1	< 1	<1	< 1	<1
3	Total Suspended Solids	mg/l	70	85	75	98	56
4	Total Dissolved Solids @ 105°C	mg/l	112	165	140	174	180
5	BOD for 3 days at 27°C	mg/l	12	20	14	32	16
6	COD	mg/l	65	98	56	115	74
7	Chloride as Cl	mg/l	12.3	23	18	26	23
8	Phosphate as P	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
9	Sulphide as S <sup>2-</sup>	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
10	Sulphates as SO <sub>4</sub>	mg/l	7	10.8	12	20	9
11	Total Volatile Suspended Solids (MLVSS)	mg/l	24	36	26	45	22
12	Colour	Hazen units	4	12	6	10	15
13	Odour	.....	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
14	Iron as Fe	mg/l	0.1	0.28	0.22	0.2	0.25
15	Flouride as F <sup>-</sup>	mg/l	0.2	0.32	0.26	0.1	0.26
16	Boron as B	mg/l	<0.10	<0.10	< 0.10	< 0.10	< 0.10
17	Percent Sodium	....	42.6	42.6	41.5	45	42.5
18	Residual Sodium Carbonate	mg/l	25	26	18	20	21
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
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

**Reporting Period: April-2021 to September-2021**

**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**

29	Total Coliforms	CFU/100 ml	75	95	135	145	65
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<b>Deojhar Iron Ore Mines</b>							
<b>M/s Tarini Minerals Pvt. Ltd.</b>							
<b>Surface Water Quality Report</b>							
<b>Jul-21</b>							
Location			SunaNadi U/S	SunaNadi D/S	MahadevNallah U/S	MahadevNallah D/S	Baitarani River
Sl. No.	Test Parameter	Units	Result				
1	pH	...	6.67	6.75	6.73	6.64	6.69
2	Oil & Grease	mg/l	< 1	< 1	<1	< 1	<1
3	Total Suspended Solids	mg/l	64	96	44	78	84
4	Total Dissolved Solids @ 105°C	mg/l	142	164	152	186	194
5	BOD for 3 days at 27°C	mg/l	10	17	11	10	22
6	COD	mg/l	40	78	48	60	96
7	Chloride as Cl	mg/l	8.8	14.2	10.8	9.4	14.2
8	Phosphate as P	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
9	Sulphide as S <sup>2-</sup>	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
10	Sulphates as SO <sub>4</sub>	mg/l	7.5	8.6	6.5	8.7	12
11	Total Volatile Suspended Solids (MLVSS)	mg/l	22	30	14	24	38
12	Colour	Hazen units	5	10	10	5	10
13	Odour	....	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
14	Iron as Fe	mg/l	0.24	0.27	0.15	0.24	0.25
15	Flouride as F <sup>-</sup>	mg/l	0.26	0.21	0.19	0.29	0.31
16	Boron as B	mg/l	<0.10	<0.10	< 0.10	< 0.10	< 0.10
17	Percent Sodium	....	41.3	44.1	41.5	41.3	43.6
18	Residual Sodium Carbonate	mg/l	37	27	42	58	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
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

**Reporting Period: April-2021 to September-2021**

**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**

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	80	90	80	80	90
<b>Deojhar Iron Ore Mines</b>							
<b>M/s Tarini Minerals Pvt. Ltd.</b>							
<b>Surface Water Quality Report</b>							
<b>Sep-21</b>							
Location			SunaNadi U/S	SunaNadi D/S	MahadevNallah U/S	MahadevNallah D/S	Baitarani River
Sl. No.	Test Parameter	Units	Result				
1	pH	...	6.7	6.82	6.7	6.65	6.65
2	Oil & Grease	mg/l	< 1	< 1	<1	< 1	<1
3	Total Suspended Solids	mg/l	55	90	45	70	90
4	Total Dissolved Solids @ 105°C	mg/l	165	156	160	175	215
5	BOD for 3 days at 27°C	mg/l	10	19	7	15	22
6	COD	mg/l	52	81	42	82	125
7	Chloride as Cl	mg/l	7.1	13.5	8.3	10.1	18.6
8	Phosphate as P	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
9	Sulphide as S <sup>2-</sup>	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
10	Sulphates as SO <sub>4</sub>	mg/l	8.2	9.6	7	9.6	15
11	Total Volatile Suspended Solids (MLVSS)	mg/l	18	28	15	25	40
12	Colour	Hazen units	6	12	12	4	15
13	Odour	.....	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
14	Iron as Fe	mg/l	0.2	0.25	0.12	0.29	0.26
15	Flouride as F <sup>-</sup>	mg/l	0.25	0.34	0.26	0.42	0.38
16	Boron as B	mg/l	<0.10	<0.10	< 0.10	< 0.10	< 0.10
17	Percent Sodium	....	41.3	41	41.9	41.5	41.2
18	Residual Sodium Carbonate	mg/l	38	49	36	49	46
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
25	Mercury as Hg	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

**Reporting Period: April-2021 to September-2021**



**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**

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	75	105	80	95	125

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

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

Category of Employees	IME		PME	
	Contractor	Owner	Contractor	Owner
Workers	5	0	3	0
Staff	0	0		0
Executive / Managers	0	0	0	1
<b>TOTAL</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>1</b>

**Reporting Period: April-2021 to September-2021**

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


**FORM O**  
 [See Rule 29 F (2) and 29 L]  
**Report of Medical Examination Under Rule 29 B**  
 (To be issued in Triplicate)\*\*

Taruha A.O. Joda No 1000386  
 Deojhar

CERTIFICATE No. \_\_\_\_\_

Certified that Sri/Smt. \*employed as \_\_\_\_\_ in \_\_\_\_\_ mine.  
 form B No. 44 has been examined for an initial/periodical \* medical  
 examination. He/she\* appears to be 45 years of age.  
 The findings if the examination authority are given in the attached sheet, it is considered that  
 Sri/Shrimati K. K. Mishra

(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 \_\_\_\_\_ 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 / not\* permitted to carry on his/her duties during this period.



**Rabi Narayan Kar**  
 M.B.B.S.  
 Reg. No - 8220  
 Sr. Medical Officer  
 Earthmovers (P) Ltd.

Dr. Rabi Narayan Kar  
 20/09/2021

**Signature of the Examining Authority**  
**Dr. Rabi Narayan Kar**  
 Name and Designation: Sr. Medical Officer  
 Reg. No - 8220  
 Earthmovers (P) Ltd.

Place : **HI-TECH DIAGNOSTIC CENTRE JODA**  
 Date : 20/09/2021

\* 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.

Reporting Period: April-2021 to September-2021

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

# PHOTOGRAPHS

Reporting Period: April-2021 to September-2021

**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**



Photo-1: Mobile Water Tanker for dust suppression



Photo-2: Truck Tire wash system



Photo-3: Environment monitoring & sampling



**Reporting Period: April-2021 to September-2021**

**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**



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



Photo-5: Retaining wall at toe of dumps

**Reporting Period: April-2021 to September-2021**

**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**



Photo-6: Safety zone plantation and dump plantation



Photo-7: Roof top rain water harvesting

**Reporting Period: April-2021 to September-2021**

**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**



Photo-8: STP for treatment of Domestic Waste Water (Ultra Filtration Unit) & its utilization in green belt development



Photo-9: Black topped road adjoining to the ML



Photo-9: Mineral dispatch truck with tarpaulin

**Reporting Period: April-2021 to September-2021**

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

# **ENVIRONMENT MONITORING REPORTS**

Reporting Period: April-2021 to September-2021



**DEOJHAR MINES**

AAQ REPORT

**SEPTEMBER-2021**



# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

<b>REPORT NO: DIOM/TM /ENV/2021/AAQ/2021-09</b>				<b>Issued to:</b>
<b>Reporting Date</b>	30.09.2021	<b>Analysis Starting on</b>	29.09.2021	Deojhar Iron Ore Mines,
<b>Sample Received on</b>	29.09.2021	<b>Analysis Completed on</b>	30.09.2021	
<b>Sample Description:</b> Ambient Air Quality				M/s Tarini Minerals Pvt. Ltd.
<b>Location</b>	: Mines Office			
<b>Month</b>	: September -2021			
<b>Sample Collected by:</b> B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM <sub>10</sub> [µg/m <sup>3</sup> ]	PM <sub>2.5</sub> [µg/m <sup>3</sup> ]	SO <sub>2</sub> [µg/m <sup>3</sup> ]	NO <sub>2</sub> [µg/m <sup>3</sup> ]	CO [mg/m <sup>3</sup> ]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/09/2021	81	27	10.6	11.5	0.67
2	07/09/2021	72	23	9.8	10.5	0.34
3	10/09/2021	68	21	12.1	13.7	0.46
4	14/09/2021	71	28	10.5	11.4	0.52
5	17/09/2021	80	26	11.3	12.4	0.29
6	21/09/2021	81	32	10.1	11.5	0.41
7	24/09/2021	79	28	9.7	10.6	0.57
8	28/09/2021	75	28	10.3	11.4	0.72
<b>NAAQ Standards (24 hourly standard)</b>		<b>100</b> [µg/m <sup>3</sup> ]	<b>60</b> [µg/m <sup>3</sup> ]	<b>80</b> [µg/m <sup>3</sup> ]	<b>80</b> [µg/m <sup>3</sup> ]	<b>02</b> [mg/m <sup>3</sup> ] (8 hourly)

**Legend:PM<sub>10</sub>-Particulate Matter(Size Less than 10µm)**  
**PM<sub>2.5</sub>-Particulate Matter(Size Less than 2.5µm)**  
**SO<sub>2</sub>-Sulphur Dioxide**  
**NO<sub>2</sub>- NitrogenDioxide**

  
**Authorized Signatory**  


\*Complaints Register is available at Laboratory.

4<sup>th</sup> Floor, 'AMITY VILLE', 12-13-1270/71/73,  
St. Ann's Road, Tarnaka,  
Secunderabad - 500017,  
Telangana, India

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Website : www.bsenvitech.com  
CIN No. : U74210TG1999PTC032358



# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

<b>REPORT NO: DIOM/ TM /ENV/2021/AAQ/2021-09</b>				<b>Issued to:</b>
<b>Reporting Date</b>	30.09.2021	<b>Analysis Starting on</b>	29.09.2021	Deojhar Iron Ore Mines,
<b>Sample Received on</b>	29.09.2021	<b>Analysis Completed on</b>	30.09.2021	
<b>Sample Description:</b> Ambient Air Quality				M/s Tarini Minerals Pvt. Ltd.
<b>Location</b>	: Exit Gate			
<b>Month</b>	: September-2021			
<b>Sample Collected by:</b> B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM <sub>10</sub> [µg/m <sup>3</sup> ]	PM <sub>2.5</sub> [µg/m <sup>3</sup> ]	SO <sub>2</sub> [µg/m <sup>3</sup> ]	NO <sub>2</sub> [µg/m <sup>3</sup> ]	CO [mg/m <sup>3</sup> ]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/09/2021	83	32	10.7	12.1	0.43
2	07/09/2021	81	30	11.1	12.5	0.51
3	10/09/2021	76	28	10.7	12.1	0.35
4	14/09/2021	74	18	11.2	12.5	0.48
5	17/09/2021	65	18	10.6	11.8	0.59
6	21/09/2021	83	28	10.7	11.9	0.68
7	24/09/2021	75	23	11.0	12.2	0.57
8	28/09/2021	80	28	10.4	11.5	0.62
<b>NAAQ Standards (24 hourly standard)</b>		<b>100</b> [µg/m <sup>3</sup> ]	<b>60</b> [µg/m <sup>3</sup> ]	<b>80</b> [µg/m <sup>3</sup> ]	<b>80</b> [µg/m <sup>3</sup> ]	<b>02</b> [mg/m <sup>3</sup> ] (8 hourly)

**Legend: PM<sub>10</sub>-Particulate Matter (Size Less than 10µm)**  
**PM<sub>2.5</sub>-Particulate Matter (Size Less than 2.5µm)**  
**SO<sub>2</sub>-Sulphur Dioxide**  
**NO<sub>2</sub>- Nitrogen Dioxide**

  
**Authorized Signatory**  


\*Complaints Register is available at Laboratory.

4<sup>th</sup> Floor, 'AMITY VILLE', 12-13-1270/71/73,  
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Website : www.bsenvitech.com  
CIN No. : U74210TG1999PTC032358



# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

<b>REPORT NO: DIOM/TM /ENV/2021/AAQ/2021-09</b>				<b>Issued to:</b>
<b>Reporting Date</b>	30.09.2021	<b>Analysis Starting on</b>	29.09.2021	Deojhar Iron Ore Mines,
<b>Sample Received on</b>	29.09.2021	<b>Analysis Completed on</b>	30.09.2021	
<b>Sample Description:</b> Ambient Air Quality				M/s Tarini Minerals Pvt. Ltd.
<b>Location</b>	: Murgabeda Village			
<b>Month</b>	: September-2021			
<b>Sample Collected by:</b> B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
		[ $\mu\text{g}/\text{m}^3$ ]	[ $\mu\text{g}/\text{m}^3$ ]	[ $\mu\text{g}/\text{m}^3$ ]	[ $\mu\text{g}/\text{m}^3$ ]	[ $\text{mg}/\text{m}^3$ ]
Protocol		IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/09/2021	67	18	11.0	12.6	0.41
2	07/09/2021	69	17	9.2	10.7	0.78
3	10/09/2021	62	14	10.4	12.0	0.34
4	14/09/2021	57	11	9.9	11.1	0.47
5	17/09/2021	63	15	10.3	11.5	0.61
6	21/09/2021	74	24	10.9	12.2	0.44
7	24/09/2021	65	15	11.2	12.8	0.51
8	28/09/2021	61	24	10.5	11.7	0.64
<b>NAAQ Standards (24 hourly standard)</b>		<b>100 [<math>\mu\text{g}/\text{m}^3</math>]</b>	<b>60 [<math>\mu\text{g}/\text{m}^3</math>]</b>	<b>80 [<math>\mu\text{g}/\text{m}^3</math>]</b>	<b>80 [<math>\mu\text{g}/\text{m}^3</math>]</b>	<b>02 [<math>\text{mg}/\text{m}^3</math>] (8 hourly)</b>

**Legend: PM<sub>10</sub>-Particulate Matter (Size Less than 10 $\mu\text{m}$ )**

**PM<sub>2.5</sub>-Particulate Matter (Size Less than 2.5 $\mu\text{m}$ )**

**SO<sub>2</sub>-Sulphur Dioxide**

**NO<sub>2</sub>- Nitrogen Dioxide**

  
**Authorized Signatory**

\*Complaints Register is available at Laboratory.

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CIN No. : U74210TG1999PTC032358



# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

<b>REPORT NO: DIOM/TM /ENV/2021/AAQ/2021-09</b>				<b>Issued to:</b>
<b>Reporting Date</b>	30.09.2021	<b>Analysis Starting on</b>	29.09.2021	Deojhar Iron Ore Mines,
<b>Sample Received on</b>	29.09.2021	<b>Analysis Completed on</b>	30.09.2021	
<b>Sample Description:</b> Ambient Air Quality				M/s Tarini Minerals Pvt. Ltd.
<b>Location</b>	: Bileipada Village			
<b>Month</b>	: September-2021			
<b>Sample Collected by:</b> B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM <sub>10</sub> [µg/m <sup>3</sup> ]	PM <sub>2.5</sub> [µg/m <sup>3</sup> ]	SO <sub>2</sub> [µg/m <sup>3</sup> ]	NO <sub>2</sub> [µg/m <sup>3</sup> ]	CO [mg/m <sup>3</sup> ]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/09/2021	60	11	12.0	13.7	0.48
2	07/09/2021	61	17	11.1	11.7	0.66
3	10/09/2021	57	10	10.3	12.4	0.71
4	14/09/2021	59	11	11.3	12.5	0.52
5	17/09/2021	64	20	10.9	12.1	0.71
6	21/09/2021	72	30	11.4	13.1	0.52
7	24/09/2021	60	13	12.0	13.9	0.49
8	28/09/2021	59	21	12.2	14.0	0.54
<b>NAAQ Standards (24 hourly standard)</b>		<b>100</b> [µg/m <sup>3</sup> ]	<b>60</b> [µg/m <sup>3</sup> ]	<b>80</b> [µg/m <sup>3</sup> ]	<b>80</b> [µg/m <sup>3</sup> ]	<b>02</b> [mg/m <sup>3</sup> ] (8 hourly)

**Legend: PM<sub>10</sub>-Particulate Matter (Size Less than 10µm)**  
**PM<sub>2.5</sub>-Particulate Matter (Size Less than 2.5µm)**  
**SO<sub>2</sub>-Sulphur Dioxide**  
**NO<sub>2</sub>- Nitrogen Dioxide**

  
**Authorized Signatory**



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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

<b>REPORT NO: DIOM/ TM /ENV/2021/AAQ/2021-09</b>				<b>Issued to:</b>
<b>Reporting Date</b>	30.09.2021	<b>Analysis Starting on</b>	29.09.2021	Deojhar Iron Ore Mines,
<b>Sample Received on</b>	29.09.2021	<b>Analysis Completed on</b>	30.09.2021	
<b>Sample Description:</b> Ambient Air Quality				M/s Tarini Minerals Pvt. Ltd.
<b>Location</b>	: Deojhar Village			
<b>Month</b>	: September -2021			
<b>Sample Collected by:</b> B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM <sub>10</sub> [µg/m <sup>3</sup> ]	PM <sub>2.5</sub> [µg/m <sup>3</sup> ]	SO <sub>2</sub> [µg/m <sup>3</sup> ]	NO <sub>2</sub> [µg/m <sup>3</sup> ]	CO [mg/m <sup>3</sup> ]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/09/2021	69	18	10.8	12.3	0.66
2	07/09/2021	59	10	10.5	11.5	0.50
3	10/09/2021	62	18	9.9	10.7	0.39
4	14/09/2021	63	22	10.2	11.5	0.42
5	17/09/2021	70	28	10.9	12.1	0.46
6	21/09/2021	65	23	11.0	12.6	0.38
7	24/09/2021	69	24	10.6	12.1	0.47
8	28/09/2021	59	15	11.1	12.4	0.52
<b>NAAQ Standards (24 hourly standard)</b>		<b>100</b> [µg/m <sup>3</sup> ]	<b>60</b> [µg/m <sup>3</sup> ]	<b>80</b> [µg/m <sup>3</sup> ]	<b>80</b> [µg/m <sup>3</sup> ]	<b>02</b> [mg/m <sup>3</sup> ] (8 hourly)

**Legend: PM<sub>10</sub>-Particulate Matter (Size Less than 10µm)**  
**PM<sub>2.5</sub>-Particulate Matter (Size Less than 2.5µm)**  
**SO<sub>2</sub>-Sulphur Dioxide**  
**NO<sub>2</sub>- Nitrogen Dioxide**



**Authorized Signatory**

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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

<b>REPORT NO: DIOM/ TM /ENV/2021/AAQ/2021-09</b>				<b>Issued to:</b>
<b>Reporting Date</b>	30.09.2021	<b>Analysis Starting on</b>	29.09.2021	Deojhar Iron Ore Mines,
<b>Sample Received on</b>	29.09.2021	<b>Analysis Completed on</b>	30.09.2021	
<b>Sample Description:</b> Ambient Air Quality				M/s Tarini Minerals Pvt. Ltd.
<b>Location</b>	: Mahadevnasa Village			
<b>Month</b>	: September -2021			
<b>Sample Collected by:</b> B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM <sub>10</sub> [µg/m <sup>3</sup> ]	PM <sub>2.5</sub> [µg/m <sup>3</sup> ]	SO <sub>2</sub> [µg/m <sup>3</sup> ]	NO <sub>2</sub> [µg/m <sup>3</sup> ]	CO [mg/m <sup>3</sup> ]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/09/2021	58	11	11.5	12.9	0.46
2	07/09/2021	62	14	10.8	11.9	0.52
3	10/09/2021	63	17	10.1	12.5	0.32
4	14/09/2021	55	10	10.7	11.9	0.21
5	17/09/2021	59	10	11.0	12.3	0.64
6	21/09/2021	60	21	10.8	12.0	0.58
7	24/09/2021	64	13	11.3	12.7	0.75
8	28/09/2021	63	22	10.5	11.8	0.39
<b>NAAQ Standards (24 hourly standard)</b>		<b>100</b> [µg/m <sup>3</sup> ]	<b>60</b> [µg/m <sup>3</sup> ]	<b>80</b> [µg/m <sup>3</sup> ]	<b>80</b> [µg/m <sup>3</sup> ]	<b>02</b> [mg/m <sup>3</sup> ] (8 hourly)

**Legend: PM<sub>10</sub>-Particulate Matter (Size Less than 10µm)**

**PM<sub>2.5</sub>-Particulate Matter (Size Less than 2.5µm)**

**SO<sub>2</sub>-Sulphur Dioxide**

**NO<sub>2</sub>- Nitrogen Dioxide**

  
**Authorized Signatory**



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**DEOJHAR MINES**

**FUGITIVE DUST  
MONITORING  
REPORT**

**SEPTEMBER-2021**





# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

<b>REPORT NO: DIOM/ TM /ENV/2021/AAQ/2021-09</b>				<b>Issued to:</b>
<b>Reporting Date</b>	30.09.2021	<b>Analysis Starting on</b>	29.09.2021	Deojhar Iron Ore Mines,
<b>Sample Received on</b>	29.09.2021	<b>Analysis Completed on</b>	30.09.2021	
<b>Sample Description:</b> Fugitive Dust Monitoring				M/s Tarini Minerals Pvt. Ltd.
<b>Location</b>	: Mines Face/Haulage Road			
<b>Month</b>	: September -2021			
<b>Sample Collected by:</b> B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [ $\mu\text{g}/\text{m}^3$ ]	STANDARD AS PER CFO
1	03/09/2021	416	<b>1200</b> [ $\mu\text{g}/\text{m}^3$ ]
2	07/09/2021	527	
3	10/09/2021	544	
4	14/09/2021	421	
5	17/09/2021	469	
6	21/09/2021	502	
7	24/09/2021	473	
8	28/09/2021	411	

**Legend: SPM-Suspended Particulate Matter**

  
**Authorized Signatory**



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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

<b>REPORT NO: DIOM/ TM /ENV/2021/AAQ/2021-09</b>				<b>Issued to:</b>
<b>Reporting Date</b>	30.09.2021	<b>Analysis Starting on</b>	29.09.2021	<b>Deojhar Iron Ore Mines,  M/s Tarini Minerals Pvt. Ltd.</b>
<b>Sample Received on</b>	29.09.2021	<b>Analysis Completed on</b>	30.09.2021	
<b>Sample Description:</b> Fugitive Dust Monitoring <b>Location</b> : Crusher Plant <b>Month</b> : September -2021 <b>Sample Collected by:</b> B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [ $\mu\text{g}/\text{m}^3$ ]	STANDARD AS PER CFO
1	03/09/2021	513	<b>1200</b> [ $\mu\text{g}/\text{m}^3$ ]
2	07/09/2021	549	
3	10/09/2021	526	
4	14/09/2021	472	
5	17/09/2021	418	
6	21/09/2021	443	
7	24/09/2021	406	
8	28/09/2021	442	

**Legend: SPM-Suspended Particulate Matter**

  
**Authorized Signatory**



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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

<b>REPORT NO: DIOM/ TM /ENV/2021/AAQ/2021-09</b>				<b>Issued to:</b>
<b>Reporting Date</b>	30.09.2021	<b>Analysis Starting on</b>	29.09.2021	Deojhar Iron Ore Mines,
<b>Sample Received on</b>	29.09.2021	<b>Analysis Completed on</b>	30.09.2021	
<b>Sample Description:</b> Fugitive Dust Monitoring				M/s Tarini Minerals Pvt. Ltd.
<b>Location</b>	: Loading/Unloading Point			
<b>Month</b>	: September -2021			
<b>Sample Collected by:</b> B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [ $\mu\text{g}/\text{m}^3$ ]	STANDARD AS PER CFO
1	03/09/2021	564	<b>1200</b> <b>[<math>\mu\text{g}/\text{m}^3</math>]</b>
2	07/09/2021	439	
3	10/09/2021	472	
4	14/09/2021	518	
5	17/09/2021	447	
6	21/09/2021	413	
7	24/09/2021	406	
8	28/09/2021	467	

**Legend: SPM-Suspended Particulate Matter**

  
**Authorized Signatory**

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# **DEOJHAR MINES**

## **ETP WATER REPORT**

**SEPTEMBER-2021**



# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022


## TEST REPORT

<b>Name &amp; Address of the Customer :</b> Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.		<b>Test Report No. :</b> BSET/2021/WW-03938	
<b>Sample Description:</b> Waste Water Sample		<b>Lab Code No :</b> 210656209	<b>Issue Date :</b> 18.09.2021
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)		<b>Date of Registration</b>	09.09.2021
<b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle		<b>Date of commencement of testing</b>	09.09.2021
<b>Test Required :</b> As given below		<b>Date of completion of testing</b>	18.09.2021
		<b>Sample condition at receipt</b>	Found ok
		<b>Sample tested as received</b>	
<b>Sampling Details</b>			
<b>Date of Sampling:</b> 07.09.2021		<b>Sampling Method/Procedure:</b> IS 3025 Part 1	
<b>Location of Sampling:</b> ETP Water inside ML Area		<b>General Environment conditions:</b> Ok	
<b>Page No: 1 of 1</b>			

### TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1	pH	---	IS:3025- Part-11	6.65	5.5 – 9.0
2	Total Suspended Solids	mg/l	IS:3025- Part-17	90	100
3	Total Dissolved Solids@105°C	mg/l	IS:3025 - Part-16	850	2100
4	Oil & Grease	mg/l	IS:3025- Part-39	7	10
5	COD	mg/l	IS:3025 - Part-58	145	250
6	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	15	30
7	Chloride as Cl,	mg/l	IS:3025 -Part-32	70	1000
8	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.46	3
9	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.35	2.0

Interpretation of results: Nil, Deviation from test method: Nil

  
Authorized Signatory  
(G. Chandra Mouli)  
Environmental Scientist

\*\*\* End of the Report \*\*\*

\*Complaints Register is available at Laboratory.

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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022


## TEST REPORT

<b>Name &amp; Address of the Customer :</b> Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.		<b>Test Report No. :</b> BSET/2021/WW-03947	
<b>Sample Description:</b> Waste Water Sample		<b>Lab Code No :</b> 210655309	<b>Issue Date :</b> 28.09.2021
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)		<b>Your Ref :</b> Letter Dated 20.09.2021	<b>Date of Receipt :</b> 20.09.2021
<b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle	<b>Date of Registration</b>	20.09.2021	
<b>Test Required :</b> As given below	<b>Date of commencement of testing</b>	20.09.2021	
	<b>Date of completion of testing</b>	28.09.2021	
	<b>Sample condition at receipt</b>	Found ok	
	<b>Sample tested as received</b>		
<b>Sampling Details</b>			
<b>Date of Sampling:</b> 17.09.2021		<b>Sampling Method/Procedure:</b> IS 3025 Part I	
<b>Location of Sampling:</b> ETP Water inside ML Area		<b>General Environment conditions:</b> Ok	
Page No: 1 of 1			

### TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1	pH	---	IS:3025- Part-11	6.75	5.5 – 9.0
2	Total Suspended Solids	mg/l	IS:3025- Part-17	120	100
3	Total Dissolved Solids@105°C	mg/l	IS:3025 - Part-16	910	2100
4	Oil & Grease	mg/l	IS:3025- Part-39	12	10
5	COD	mg/l	IS:3025 - Part-58	175	250
6	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	21	30
7	Chloride as Cl,	mg/l	IS:3025 -Part-32	80	1000
8	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.42	3
9	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.36	2.0

Interpretation of results: Nil, Deviation from test method: Nil

  
Authorized Signatory  
(G.Chandra Mouli)  
Environmental Scientist

\*\*\* End of the Report \*\*\*

\*Complaints Register is available at Laboratory.

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CIN No. : U74210TG1999PTC032358

# **DEOJHAR MINES**

## **STP WATER REPORT**

**SEPTEMBER-2021**



# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

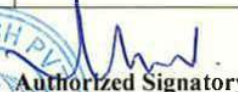
<b>Name &amp; Address of the Customer :</b>  Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.		<b>Test Report No. :</b> BSET/2021/WW-03939	
<b>Sample Description:</b> Waste Water Sample		<b>Lab Code No :</b> 210656109	<b>Issue Date :</b> 18.09.2021
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)		<b>Date of Registration</b>	09.09.2021
<b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle		<b>Date of commencement of testing</b>	09.09.2021
<b>Test Required :</b> As given below		<b>Date of completion of testing</b>	18.09.2021
		<b>Sample condition at receipt</b>	Found ok
		<b>Sample tested as received</b>	
<b>Date of Sampling:</b> 07.09.2021		<b>Sampling Method/Procedure:</b> IS 3025 Part 1	
<b>Location of Sampling:</b> STP Water At Camp		<b>General Environment conditions:</b> Ok	
		Page No: 1 of 1	

### TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1	pH	---	IS:3025- Part-11	6.78	5.5 - 9.0
2	Oil & Grease	mg/l	IS:3025- Part-39	5	10
3	Total Suspended Solids	mg/l	IS:3025- Part-17	95	100
4	Total Dissolved Solids@105°C	mg/l	IS:3025 - Part-16	812	2100
5	COD	mg/l	IS:3025 - Part-58	80	250
6	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	14	30
7	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.72	3
8	Fecal Coliform	MPN/100ml	APHA 23 <sup>rd</sup> Edition	250	230

Interpretation of results: Nil, Deviation from test method: Nil

\*\*\* End of the Report \*\*\*

  
Authorized Signatory  
(G.Chandra Mouli)  
Environmental Scientist



\*Complaints Register is available at Laboratory.

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CIN No. : U74210TG1999PTC032358





# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines,</b> <b>M/s Tarini Minerals Pvt. Ltd.</b>		<b>Test Report No. :</b> BSET/2021/WW-03948	
<b>Sample Description:</b> Waste Water Sample		<b>Lab Code No :</b> 210655209	<b>Issue Date :</b> 28.09.2021
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)		<b>Your Ref :</b> Letter Dated 20.09.2021	<b>Date of Receipt :</b> 20.09.2021
<b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle		<b>Date of Registration</b>	20.09.2021
<b>Test Required :</b> As given below		<b>Date of commencement of testing</b>	20.09.2021
		<b>Date of completion of testing</b>	28.09.2021
		<b>Sample condition at receipt</b>	Found ok
		<b>Sample tested as received</b>	
<b>Date of Sampling:</b> 17.09.2021		<b>Sampling Method/Procedure:</b> IS 3025 Part 1	
<b>Location of Sampling:</b> STP Water At Camp		<b>General Environment conditions:</b> Ok	

Page No: 1 of 1

### TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1	pH	---	IS:3025- Part-11	6.76	5.5 - 9.0
2	Oil & Grease	mg/l	IS:3025- Part-39	9	10
3	Total Suspended Solids	mg/l	IS:3025- Part-17	85	100
4	Total Dissolved Solids@105°C	mg/l	IS:3025 - Part-16	815	2100
5	COD	mg/l	IS:3025 - Part-58	108	250
6	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	26	30
7	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.87	3
8	Fecal Coliform	MPN/100ml	APHA 23 <sup>rd</sup> Edition	325	230

Interpretation of results: Nil, Deviation from test method: Nil

  
Authorized Signatory  
(G.Chandra Mouli)  
Environmental Scientist

\*\*\* End of the Report \*\*\*

\*Complaints Register is available at Laboratory.

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CIN No. : U74210TG1999PTC032358

# **DEOJHAR MINES**

## **SURFACE WATER QUALITY REPORT**

**SEPTEMBER-2021**



# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.</b>	<b>Test Report No. :</b> BSET/2021/WS-03940 <b>Lab Code No :</b> 210656009 <b>Issue Date :</b> 18.09.2021 <b>Your Ref :</b> Letter Dated 09.09.2021 <b>Date of Receipt :</b> 09.09.2021
<b>Sample Description:</b> Surface Water Sample	<b>Date of Registration</b> : 09.09.2021 <b>Date of commencement of testing</b> : 09.09.2021 <b>Date of completion of testing</b> : 18.09.2021 <b>Sample condition at receipt</b> : Found ok <b>Sample tested as received</b>
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)	
<b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle	
<b>Test Required :</b> As given below	
<b>Sampling Details</b>	
<b>Date of Sampling:</b> 07.09.2021 <b>Location of Sampling:</b> Suna nadi river Upstream	<b>Sampling Method/Procedure:</b> IS 3025 Part 1 <b>General Environment conditions:</b> Ok
<b>Page No: 1 of 2</b>	

### TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1.	pH	---	IS:3025- Part-11	6.70	5.5 – 9.0
2.	Oil & Grease	mg/l	IS:3025- Part-39	< 1	10
3.	Total Suspended Solids	mg/l	IS:3025- Part-17	55	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	165	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	10	30
6.	COD	mg/l	IS:3025 - Part-58	52	250
7.	Chloride as Cl,	mg/l	IS:3025 -Part-32	7.1	1000
8.	Phosphate as P	mg/l	4500 P, E APHA 23 <sup>rd</sup> Edition 2017	< 0.10	5.0
9.	Sulphide as S <sup>2-</sup>	mg/l	4500 S <sup>2-</sup> , D APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
10.	Sulphates as SO <sub>4</sub>	mg/l	4500-SO <sub>4</sub> E, Turbidity Method, 23 <sup>rd</sup> Edition 2017	8.2	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	18	-
12.	Colour	Hazen Units	IS:3025 -Part-4	6	Not to have Colour and Unpleasant Odour
13.	Odour	---	IS:3025 -Part-5	Agreeable	
14.	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.20	3
15.	Fluoride as F <sup>-</sup>	mg/l	4500-F D, APHA 23 <sup>rd</sup> Edition 2017	0.25	2.0

Interpretation of results: Nil, Deviation from test method: Nil

  
**Authorized Signatory**  
**(G. Chandra Mouli)**  
**Environmental Scientist**

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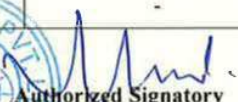
**TEST REPORT**

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines,</b> <b>M/s Tarini Minerals Pvt. Ltd.</b>		<b>Test Report No. :</b> BSET/2021/WS-03940	
<b>Sample Description:</b> Surface Water Sample		<b>Lab Code No :</b> 210656009	
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)		<b>Issue Date :</b> 18.09.2021	
<b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle		<b>Your Ref :</b> Letter Dated 09.09.2021	
<b>Test Required :</b> As given below		<b>Date of Receipt :</b> 09.09.2021	
		<b>Date of Registration</b>	09.09.2021
		<b>Date of commencement of testing</b>	09.09.2021
		<b>Date of completion of testing</b>	18.09.2021
		<b>Sample condition at receipt</b>	Found ok
		<b>Sample tested as received</b>	
<b>Sampling Details</b>			
<b>Date of Sampling:</b> 07.09.2021		<b>Sampling Method/Procedure:</b> IS 3025 Part 1	
<b>Location of Sampling:</b> Suna nadi river Upstream		<b>General Environment conditions:</b> Ok	
		<b>Page No: 2 of 2</b>	

**TEST RESULTS**

S. No.	Test Parameter	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16.	Boron as B	mg/l	4500 B, B APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	41.3	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	38	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 <sup>rd</sup> Edition 2017		-

Interpretation of results: Nil, Deviation from test method: Nil

  
**Authorized Signatory**  
**(G. Chandra Mouli)**  
**Environmental Scientist**

\*\*\* End of the Report\*\*\*

\*Complaints Register is available at Laboratory.

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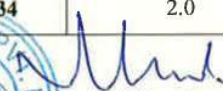
## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.</b>		<b>Test Report No. :</b> BSET/2021/WS-03941	
<b>Sample Description:</b> Surface Water Sample		<b>Lab Code No :</b> 210655909	
		<b>Issue Date :</b> 18.09.2021	
		<b>Your Ref :</b> Letter Dated 09.09.2021	
		<b>Date of Receipt :</b> 09.09.2021	
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology) <b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle <b>Test Required :</b> As given below	<b>Date of Registration</b>		09.09.2021
	<b>Date of commencement of testing</b>		09.09.2021
	<b>Date of completion of testing</b>		18.09.2021
	<b>Sample condition at receipt</b>		Found ok
	<b>Sample tested as received</b>		
<b>Sampling Details</b>			
<b>Date of Sampling:</b> 07.09.2021		<b>Sampling Method/Procedure:</b> IS 3025 Part 1	
<b>Location of Sampling:</b> Suna nadi river Downstream		<b>General Environment conditions:</b> Ok	
<b>Page No: 1 of 2</b>			

### TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1.	pH	---	IS:3025- Part-11	6.82	5.5 – 9.0
2.	Oil & Grease	mg/l	IS:3025- Part-39	< 1	10
3.	Total Suspended Solids	mg/l	IS:3025- Part-17	90	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	156	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	19	30
6.	COD	mg/l	IS:3025 - Part-58	81	250
7.	Chloride as Cl,	mg/l	IS:3025 -Part-32	13.5	1000
8.	Phosphate as P	mg/l	4500 P, E APHA 23 <sup>rd</sup> Edition 2017	< 0.10	5.0
9.	Sulphide as S <sup>2-</sup>	mg/l	4500 S <sup>2-</sup> , D APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
10.	Sulphates as SO <sub>4</sub>	mg/l	4500-SO <sub>4</sub> E, Turbidity Method, 23 <sup>rd</sup> Edition 2017	9.6	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	28	-
12.	Colour	Hazen Units	IS:3025 -Part-4	12	Not to have Colour and Unpleasant Odour
13.	Odour	---	IS:3025 -Part-5	Agreeable	
14.	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.25	3
15.	Fluoride as F <sup>-</sup>	mg/l	4500-F D, APHA 23 <sup>rd</sup> Edition 2017	0.34	2.0

Interpretation of results: Nil, Deviation from test method: Nil

  
**Authorized Signatory**  
**(G.Chandra Mouli)**  
**Environmental Scientist**



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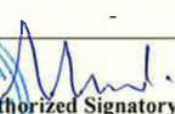
## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.</b>		<b>Test Report No. :</b> BSET/2021/WS-03941	
<b>Sample Description:</b> Surface Water Sample		<b>Lab Code No</b> : 210655909	<b>Issue Date</b> : 18.09.2021
		<b>Your Ref</b> : Letter Dated 09.09.2021	<b>Date of Receipt</b> : 09.09.2021
<b>Quantity</b> : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)		<b>Date of Registration</b>	09.09.2021
<b>Packing</b> : Plastic Bottles& Pre-Sterilized Bottle		<b>Date of commencement of testing</b>	09.09.2021
<b>Test Required</b> : As given below		<b>Date of completion of testing</b>	18.09.2021
		<b>Sample condition at receipt</b>	Found ok
		<b>Sample tested as received</b>	
<b>Sampling Details</b>			
<b>Date of Sampling:</b> 07.09.2021		<b>Sampling Method/Procedure:</b> IS 3025 Part 1	
<b>Location of Sampling:</b> Suna nadi river Downstream		<b>General Environment conditions:</b> Ok	
			Page No: 2 of 2

### TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16.	Boron as B	mg/l	4500 B, B APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	41.0	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	49	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 <sup>rd</sup> Edition 2017	105	-

Interpretation of results: Nil, Deviation from test method: Nil

  
Authorized Signatory  
(G. Chandra Mouli)  
Environmental Scientist

... End of the Report...

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# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines,</b> <b>M/s Tarini Minerals Pvt. Ltd.</b>	<b>Test Report No. :</b> BSET/2021/WS-03942 <b>Lab Code No :</b> 210655809 <b>Issue Date :</b> 18.09.2021 <b>Your Ref :</b> Letter Dated 09.09.2021 <b>Date of Receipt :</b> 09.09.2021
<b>Sample Description:</b> Surface Water Sample	<b>Date of Registration</b> : 09.09.2021 <b>Date of commencement of testing</b> : 09.09.2021 <b>Date of completion of testing</b> : 18.09.2021 <b>Sample condition at receipt</b> : Found ok <b>Sample tested as received</b>
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)	
<b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle	
<b>Test Required :</b> As given below	
<b>Sampling Details</b>	
<b>Date of Sampling:</b> 07.09.2021 <b>Location of Sampling:</b> Baitarani River	<b>Sampling Method/Procedure:</b> IS 3025 Part 1 <b>General Environment conditions:</b> Ok
<b>Page No: 1 of 2</b>	

### TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1.	pH	---	IS:3025- Part-11	6.70	5.5 – 9.0
2.	Oil & Grease	mg/l	IS:3025- Part-39	< 1	10
3.	Total Suspended Solids	mg/l	IS:3025- Part-17	45	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	160	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	7	30
6.	COD	mg/l	IS:3025 - Part-58	42	250
7.	Chloride as Cl,	mg/l	IS:3025 -Part-32	8.3	1000
8.	Phosphate as P	mg/l	4500 P, E APHA 23 <sup>rd</sup> Edition 2017	< 0.10	5.0
9.	Sulphide as S <sup>2-</sup>	mg/l	4500 S <sup>2-</sup> , D APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
10.	Sulphates as SO <sub>4</sub>	mg/l	4500-SO <sub>4</sub> E, Turbidity Method, 23 <sup>rd</sup> Edition 2017	7.0	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	15	-
12.	Colour	Hazen Units	IS:3025 -Part-4	12	Not to have Colour and Unpleasant Odour
13.	Odour	---	IS:3025 -Part-5	Agreeable	
14.	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.12	3
15.	Fluoride as F <sup>-</sup>	mg/l	4500-F D, APHA 23 <sup>rd</sup> Edition 2017	0.26	2.0

Interpretation of results: Nil, Deviation from test method: Nil

  
**Authorized Signatory**  
**( G.Chandra Mouli )**  
**Environmental Scientist**

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# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.</b>	<b>Test Report No. :</b> BSET/2021/WS-03942 <b>Lab Code No :</b> 210655809 <b>Issue Date :</b> 18.09.2021 <b>Your Ref :</b> Letter Dated 09.09.2021 <b>Date of Receipt :</b> 09.09.2021
<b>Sample Description:</b> Surface Water Sample	<b>Date of Registration</b> : 09.09.2021 <b>Date of commencement of testing</b> : 09.09.2021 <b>Date of completion of testing</b> : 18.09.2021 <b>Sample condition at receipt</b> : Found ok <b>Sample tested as received</b>
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology) <b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle <b>Test Required :</b> As given below	<b>Sampling Details</b> <b>Date of Sampling:</b> 07.09.2021 <b>Location of Sampling:</b> Baitarani River <b>Sampling Method/Procedure:</b> IS 3025 Part 1 <b>General Environment conditions:</b> Ok

Page No: 2 of 2

### TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16.	Boron as B	mg/l	4500 B, B APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	41.9	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	36	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 <sup>rd</sup> Edition 2017	80	-

Interpretation of results: Nil, Deviation from test method: Nil

  
Authorized Signatory  
(G. Chandra Mouli)  
Environmental Scientist

... End of the Report...

\*Complaints Register is available at Laboratory.

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# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines,</b> <b>M/s Tarini Minerals Pvt. Ltd.</b>	<b>Test Report No. :</b> BSET/2021/WS-03943 <b>Lab Code No :</b> 210655709 <b>Issue Date :</b> 18.09.2021 <b>Your Ref :</b> Letter Dated 09.09.2021 <b>Date of Receipt :</b> 09.09.2021
<b>Sample Description:</b> Surface Water Sample	<b>Date of Registration</b> : 09.09.2021 <b>Date of commencement of testing</b> : 09.09.2021 <b>Date of completion of testing</b> : 18.09.2021 <b>Sample condition at receipt</b> : Found ok <b>Sample tested as received</b>
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)	
<b>Packing :</b> Plastic Bottles & Pre-Sterilized Bottle	
<b>Test Required :</b> As given below	
<b>Sampling Details</b>	
<b>Date of Sampling:</b> 07.09.2021 <b>Location of Sampling:</b> Mahadev Nala Upstream	<b>Sampling Method/Procedure:</b> IS 3025 Part 1 <b>General Environment conditions:</b> Ok
<b>Page No: 1 of 2</b>	

### TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1.	pH	---	IS:3025- Part-11	6.65	5.5 - 9.0
2.	Oil & Grease	mg/l	IS:3025- Part-39	< 1	10
3.	Total Suspended Solids	mg/l	IS:3025- Part-17	70	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	175	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	15	30
6.	COD	mg/l	IS:3025 - Part-58	82	250
7.	Chloride as Cl,	mg/l	IS:3025 -Part-32	10.1	1000
8.	Phosphate as P	mg/l	4500 P, E APHA 23 <sup>rd</sup> Edition 2017	< 0.10	5.0
9.	Sulphide as S <sup>2-</sup>	mg/l	4500 S <sup>2-</sup> , D APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
10.	Sulphates as SO <sub>4</sub>	mg/l	4500-SO <sub>4</sub> E, Turbidity Method, 23 <sup>rd</sup> Edition 2017	9.6	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	25	-
12.	Colour	Hazen Units	IS:3025 -Part-4	4	Not to have Colour and Unpleasant Odour
13.	Odour	---	IS:3025 -Part-5	Agreeable	
14.	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.29	3
15.	Fluoride as F <sup>-</sup>	mg/l	4500-F D, APHA 23 <sup>rd</sup> Edition 2017	0.42	2.0

Interpretation of results: Nil, Deviation from test method: Nil

  
**Authorized Signatory**  
**(G. Chandra Mouli)**  
**Environmental Scientist**

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## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines,</b> <b>M/s Tarini Minerals Pvt. Ltd.</b>	<b>Test Report No. :</b> BSET/2021/WS-03943	
<b>Sample Description:</b> Surface Water Sample	<b>Lab Code No :</b> 210655709	
	<b>Issue Date :</b> 18.09.2021	
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)	<b>Your Ref :</b> Letter Dated 09.09.2021	
	<b>Date of Receipt :</b> 09.09.2021	
<b>Packing :</b> Plastic Bottles & Pre-Sterilized Bottle	<b>Date of Registration</b>	09.09.2021
	<b>Date of commencement of testing</b>	09.09.2021
<b>Test Required :</b> As given below	<b>Date of completion of testing</b>	18.09.2021
	<b>Sample condition at receipt</b>	Found ok
<b>Sample tested as received</b>		
<b>Sampling Details</b>		
<b>Date of Sampling:</b> 07.09.2021	<b>Sampling Method/Procedure:</b> IS 3025 Part 1	
<b>Location of Sampling:</b> Mahadev Nala Upstream	<b>General Environment conditions:</b> Ok	
<b>Page No: 2 of 2</b>		

### TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16.	Boron as B	mg/l	4500 B, B APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	41.5	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	49	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 <sup>rd</sup> Edition 2017	95	-

Interpretation of results: Nil, Deviation from test method: Nil

... End of the Report...



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## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines,</b> <b>M/s Tarini Minerals Pvt. Ltd.</b>	<b>Test Report No. :</b> BSET/2021/WS-03944 <b>Lab Code No :</b> 210655609 <b>Issue Date :</b> 18.09.2021 <b>Your Ref :</b> Letter Dated 09.09.2021 <b>Date of Receipt :</b> 09.09.2021
<b>Sample Description:</b> Surface Water Sample	<b>Date of Registration :</b> 09.09.2021 <b>Date of commencement of testing :</b> 09.09.2021 <b>Date of completion of testing :</b> 18.09.2021 <b>Sample condition at receipt :</b> Found ok <b>Sample tested as received</b>
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology) <b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle <b>Test Required :</b> As given below	<b>Sampling Details</b> <b>Date of Sampling:</b> 07.09.2021 <b>Location of Sampling:</b> Mahadev Nala Downstream <b>Sampling Method/Procedure:</b> IS 3025 Part 1 <b>General Environment conditions:</b> Ok

Page No: 1 of 2

### TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1.	pH	---	IS:3025- Part-11	6.65	5.5 – 9.0
2.	Oil & Grease	mg/l	IS:3025- Part-39	< 1	10
3.	Total Suspended Solids	mg/l	IS:3025- Part-17	90	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	215	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	22	30
6.	COD	mg/l	IS:3025 - Part-58	125	250
7.	Chloride as Cl,	mg/l	IS:3025 -Part-32	18.6	1000
8.	Phosphate as P	mg/l	4500 P, E APHA 23 <sup>rd</sup> Edition 2017	< 0.10	5.0
9.	Sulphide as S <sup>2-</sup>	mg/l	4500 S <sup>2-</sup> , D APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
10.	Sulphates as SO <sub>4</sub>	mg/l	4500-SO <sub>4</sub> E, Turbidity Method, 23 <sup>rd</sup> Edition 2017	15	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	40	-
12.	Colour	Hazen Units	IS:3025 -Part-4	15	Not to have Colour and Unpleasant Odour
13.	Odour	---	IS:3025 -Part-5	Agreeable	
14.	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.26	3
15.	Fluoride as F <sup>-</sup>	mg/l	4500-F D, APHA 23 <sup>rd</sup> Edition 2017	0.38	2.0

Interpretation of results: Nil, Deviation from test method: Nil

  
**Authorized Signatory**  
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**Environmental Scientist**

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## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.</b>		<b>Test Report No. :</b> BSET/2021/WS-03944	
<b>Sample Description:</b> Surface Water Sample		<b>Lab Code No</b> : 210655609	<b>Issue Date</b> : 18.09.2021
		<b>Your Ref</b> : Letter Dated 09.09.2021	<b>Date of Receipt</b> : 09.09.2021
<b>Quantity</b> : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)		<b>Date of Registration</b>	09.09.2021
<b>Packing</b> : Plastic Bottles& Pre-Sterilized Bottle		<b>Date of commencement of testing</b>	09.09.2021
<b>Test Required</b> : As given below		<b>Date of completion of testing</b>	18.09.2021
		<b>Sample condition at receipt</b>	Found ok
		<b>Sample tested as received</b>	
<b>Sampling Details</b>			
<b>Date of Sampling:</b> 07.09.2021		<b>Sampling Method/Procedure:</b> IS 3025 Part 1	
<b>Location of Sampling:</b> Mahadev Nala Downstream		<b>General Environment conditions:</b> Ok	
			Page No: 2 of 2

### TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16.	Boron as B	mg/l	4500 B, B APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	41.2	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	46	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 <sup>rd</sup> Edition 2017	125	-

Interpretation of results: Nil, Deviation from test method: Nil



... End of the Report...

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**DEOJHAR MINES**

**SURFACE RUNOFF  
WATER QUALITY  
REPORT**

**SEPTEMBER-2021**



# B.S. ENVI - TECH PVT. LTD.

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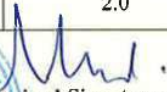
## TEST REPORT


<b>Name &amp; Address of the Customer :</b> Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.		<b>Test Report No. :</b> BSET/2021/WS-03945	
<b>Sample Description:</b> Surface Water Sample		<b>Lab Code No :</b> 210655509	
		<b>Issue Date :</b> 18.09.2021	
		<b>Your Ref :</b> Letter Dated 09.09.2021	
		<b>Date of Receipt :</b> 09.09.2021	
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology) <b>Packing :</b> Plastic Bottles & Pre-Sterilized Bottle <b>Test Required :</b> As given below	<b>Date of Registration</b>		09.09.2021
	<b>Date of commencement of testing</b>		09.09.2021
	<b>Date of completion of testing</b>		18.09.2021
	<b>Sample condition at receipt</b>		Found ok
	<b>Sample tested as received</b>		
<b>Sampling Details</b>			
<b>Date of Sampling:</b> 07.09.2021		<b>Sampling Method/Procedure:</b> IS 3025 Part 1	
<b>Location of Sampling:</b> Shutting Pond Near Gate No.02		<b>General Environment conditions:</b> Ok	
			Page No: 1 of 2

### TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1.	pH	---	IS:3025- Part-11	6.74	5.5 – 9.0
2.	Oil & Grease	mg/l	IS:3025- Part-39	< 1	10
3.	Total Suspended Solids	mg/l	IS:3025- Part-17	36	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	150	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	8	30
6.	COD	mg/l	IS:3025 - Part-58	56	250
7.	Chloride as Cl,	mg/l	IS:3025 -Part-32	11.5	1000
8.	Phosphate as P	mg/l	4500 P, E APHA 23 <sup>rd</sup> Edition 2017	< 0.10	5.0
9.	Sulphide as S <sup>2-</sup>	mg/l	4500 S <sup>2-</sup> , D APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
10.	Sulphates as SO <sub>4</sub>	mg/l	4500-SO <sub>4</sub> E, Turbidity Method, 23 <sup>rd</sup> Edition 2017	9.4	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	18	-
12.	Colour	Hazen Units	IS:3025 -Part-4	5	Not to have Colour and Unpleasant Odour
13.	Odour	---	IS:3025 -Part-5	Agreeable	
14.	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.10	3
15.	Fluoride as F <sup>-</sup>	mg/l	4500-F D, APHA 23 <sup>rd</sup> Edition 2017	0.20	2.0

Interpretation of results: Nil, Deviation from test method: Nil

  
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Environmental Scientist



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## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines,</b> <b>M/s Tarini Minerals Pvt. Ltd.</b>	<b>Test Report No. :</b> BSET/2021/WS-03945 <b>Lab Code No :</b> 210655509 <b>Issue Date :</b> 18.09.2021 <b>Your Ref :</b> Letter Dated 09.09.2021 <b>Date of Receipt :</b> 09.09.2021
<b>Sample Description:</b> Surface Water Sample	<b>Date of Registration</b> : 09.09.2021 <b>Date of commencement of testing</b> : 09.09.2021 <b>Date of completion of testing</b> : 18.09.2021 <b>Sample condition at receipt</b> : Found ok <b>Sample tested as received</b>
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)	
<b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle	
<b>Test Required :</b> As given below	
<b>Sampling Details</b>	
<b>Date of Sampling:</b> 07.09.2021 <b>Location of Sampling:</b> Shutting Pond Near Gate No.02	<b>Sampling Method/Procedure:</b> IS 3025 Part 1 <b>General Environment conditions:</b> Ok
<b>Page No: 2 of 2</b>	

### TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16.	Boron as B	mg/l	4500 B, B APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	42.6	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	29	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 <sup>rd</sup> Edition 2017	45	-

Interpretation of results: Nil, Deviation from test method: Nil

... End of the Report...



Authorized Signatory  
(G.Chandra Mouli)  
Environmental Scientist

\*Complaints Register is available at Laboratory.

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CIN No. : U74210TG1999PTC032358



# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, GoI: Valid upto August, 2022

## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines,</b> <b>M/s Tarini Minerals Pvt. Ltd.</b>	<b>Test Report No. :</b> BSET/2021/WS-03946	
<b>Sample Description:</b> Surface Water Sample	<b>Lab Code No :</b> 210655409	
	<b>Issue Date :</b> 18.09.2021	
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)	<b>Your Ref :</b> Letter Dated 09.09.2021	
	<b>Date of Receipt :</b> 09.09.2021	
<b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle	<b>Date of Registration</b>	09.09.2021
	<b>Date of commencement of testing</b>	09.09.2021
<b>Test Required :</b> As given below	<b>Date of completion of testing</b>	18.09.2021
	<b>Sample condition at receipt</b>	Found ok
<b>Sample tested as received</b>		
<b>Sampling Details</b>		
<b>Date of Sampling:</b> 07.09.2021	<b>Sampling Method/Procedure:</b> IS 3025 Part 1	
<b>Location of Sampling:</b> Shutting Pond Near Camp	<b>General Environment conditions:</b> Ok	
		<b>Page No: 1 of 2</b>

### TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1.	pH	---	IS:3025- Part-11	6.63	5.5 – 9.0
2.	Oil & Grease	mg/l	IS:3025- Part-39	< 1	10
3.	Total Suspended Solids	mg/l	IS:3025- Part-17	38	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	140	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	12	30
6.	COD	mg/l	IS:3025 - Part-58	65	250
7.	Chloride as Cl <sub>1</sub> ,	mg/l	IS:3025 -Part-32	15.6	1000
8.	Phosphate as P	mg/l	4500 P, E APHA 23 <sup>rd</sup> Edition 2017	< 0.10	5.0
9.	Sulphide as S <sup>2-</sup>	mg/l	4500 S <sup>2-</sup> , D APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
10.	Sulphates as SO <sub>4</sub>	mg/l	4500-SO <sub>4</sub> E, Turbidity Method, 23 <sup>rd</sup> Edition 2017	13	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	16	-
12.	Colour	Hazen Units	IS:3025 -Part-4	5	Not to have Colour and Unpleasant Odour
13.	Odour	---	IS:3025 -Part-5	Agreeable	
14.	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.12	3
15.	Fluoride as F <sup>-</sup>	mg/l	4500-F D, APHA 23 <sup>rd</sup> Edition 2017	0.19	2.0

Interpretation of results: Nil, Deviation from test method: Nil

  
Authorized Signatory  
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# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.</b>	<b>Test Report No. :</b> BSET/2021/WS-03946 <b>Lab Code No :</b> 210655409 <b>Issue Date :</b> 18.09.2021 <b>Your Ref :</b> Letter Dated 09.09.2021 <b>Date of Receipt :</b> 09.09.2021
<b>Sample Description:</b> Surface Water Sample	<b>Date of Registration</b> : 09.09.2021 <b>Date of commencement of testing</b> : 09.09.2021 <b>Date of completion of testing</b> : 18.09.2021 <b>Sample condition at receipt</b> : Found ok <b>Sample tested as received</b>
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)	
<b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle	
<b>Test Required :</b> As given below	
<b>Sampling Details</b>	
<b>Date of Sampling:</b> 07.09.2021 <b>Location of Sampling:</b> Shutting Pond Near Camp	<b>Sampling Method/Procedure:</b> IS 3025 Part 1 <b>General Environment conditions:</b> Ok
Page No: 2 of 2	

### TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16.	Boron as B	mg/l	4500 B, B APHA 23 <sup>rd</sup> Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	40.6	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	28	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 <sup>rd</sup> Edition 2017	65	-

Interpretation of results: Nil, Deviation from test method: Nil

... End of the Report...



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CIN No. : U74210TG1999PTC032358

**DEOJHAR MINES**

**DRINKING WATER  
QUALITY REPORT**

**JULY-2021**



# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

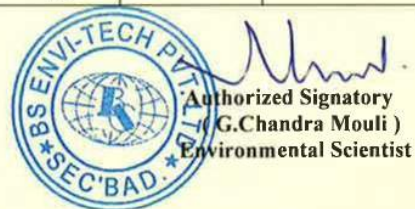
<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines,</b> <b>M/s Tarini Minerals Pvt. Ltd.</b>		<b>Test Report No. :</b> BSET/2021/WS-02094	
<b>Sample Description:</b> Drinking Water Sample		<b>Lab Code No</b> : 210840607	<b>Issue Date</b> : 19.07.2021
<b>Quantity</b> : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		<b>Date of Registration</b>	09.07.2021
<b>Packing</b> : Plastic Bottles & Pre-Sterilized Bottle		<b>Date of commencement of testing</b>	09.07.2021
<b>Test Required</b> : As given below		<b>Date of completion of testing</b>	19.07.2021
		<b>Sample condition at receipt</b>	Found ok
		<b>Sample tested as received</b>	
<b>Date of Sampling:</b> 06.07.2021 <b>Location of Sampling:</b> At Mines for Portable test		<b>Sampling Method/Procedure:</b> IS 3025 Part 1 <b>General Environment conditions:</b> Ok	

Page No: 1 of 2

### TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1	Odour	--	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2	Colour	Hazen Units	IS:3025 -Part-4	< 5	5	15
3	pH	--	IS:3025- Part-11	6.75	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5	Total Hardness as CaCO <sub>3</sub>	mg/l	IS:3025 -Part-21	76	200	600
6	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.08	1.0	No Relaxation
7	Chlorides as Cl	mg/l	IS:3025 -Part-32	45	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	198	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	24	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	3.9	30	100
11	Sulphate as SO <sub>4</sub>	mg/l	4500-SO <sub>4</sub> E, Turbidity Method, APHA 23 <sup>rd</sup> Edition 2017	27	200	400
12	Nitrate as NO <sub>3</sub>	mg/l	4500-NO <sub>3</sub> B Ultraviolet Spectrophotometric Screening Method	12	45	No Relaxation
13	Fluoride as F <sup>-</sup>	mg/l	4500-F D, APHA 23 <sup>rd</sup> Edition 2017	0.36	1	1.5
14	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS:3025 -Part-23	48	200	600

Interpretation of results: Nil, Deviation from test method: Nil



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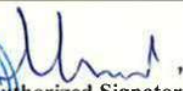
## TEST REPORT


<b>Name &amp; Address of the Customer :</b> Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.		<b>Test Report No. :</b> BSET/2021/WS-02094	
<b>Sample Description:</b> Drinking Water Sample		<b>Lab Code No</b> : 210840607	<b>Issue Date</b> : 19.07.2021
<b>Quantity</b> : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		<b>Date of Registration</b>	09.07.2021
<b>Packing</b> : Plastic Bottles & Pre-Sterilized Bottle		<b>Date of commencement of testing</b>	09.07.2021
<b>Test Required</b> : As given below		<b>Date of completion of testing</b>	19.07.2021
		<b>Sample condition at receipt</b>	Found ok
		<b>Sample tested as received</b>	
<b>Sampling Details</b>			
<b>Date of Sampling:</b> 06.07.2021		<b>Sampling Method/Procedure:</b> IS 3025 Part 1	
<b>Location of Sampling:</b> At Mines for Portable test		<b>General Environment conditions:</b> Ok	
		<b>Page No:</b> 2 of 2	

### TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15	Boron as B	mg/l	4500-B B. Curcumin Method, APHA 23 <sup>rd</sup> Edition 2017	< 0.10	0.5	1
16	Aluminium as Al	mg/l	3500 Al B – Erochrome Cyanine R method	< 0.02	0.03	0.2
17	Copper as Cu	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	0.1	0.3
19	Selenium as Se	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of AOPHA 23 <sup>rd</sup> Edition 2017	< 0.02	0.05	No Relaxation
26	Total Coliforms	CFU/100ml	IS: 1622 – 1981	Absent	-	-

Interpretation of results: Nil, Deviation from test method: Nil

  
Authorized Signatory  
(G. Chandra Mouli)  
Environmental Scientist



... End of the Report...

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# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

<b>Name &amp; Address of the Customer :</b> Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.		<b>Test Report No. :</b> BSET/2021/WS-02095	
<b>Sample Description:</b> Drinking Water Sample		<b>Lab Code No</b> : 210840507	<b>Issue Date</b> : 19.07.2021
<b>Quantity</b> : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)		<b>Date of Registration</b>	09.07.2021
<b>Packing</b> : Plastic Bottles& Pre-Sterilized Bottle		<b>Date of commencement of testing</b>	09.07.2021
<b>Test Required</b> : As given below		<b>Date of completion of testing</b>	19.07.2021
		<b>Sample condition at receipt</b>	Found ok
		<b>Sample tested as received</b>	
<b>Date of Sampling:</b> 06.07.2021 <b>Location of Sampling:</b> At Camp Inlet Water		<b>Sampling Details</b> <b>Sampling Method/Procedure:</b> IS 3025 Part 1 <b>General Environment conditions:</b> Ok	
		<b>Page No:</b> 1 of 2	

### TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1	Odour	--	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2	Colour	Hazen Units	IS:3025 -Part-4	< 5	5	15
3	pH	--	IS:3025- Part-11	6.67	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5	Total Hardness as CaCO <sub>3</sub>	mg/l	IS:3025 -Part-21	62	200	600
6	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.08	1.0	No Relaxation
7	Chlorides as Cl	mg/l	IS:3025 -Part-32	39	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	152	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	20	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	2.9	30	100
11	Sulphate as SO <sub>4</sub>	mg/l	4500-SO <sub>4</sub> E, Turbidity Method, APHA 23 <sup>rd</sup> Edition 2017	18	200	400
12	Nitrate as NO <sub>3</sub>	mg/l	4500-NO <sub>3</sub> B Ultraviolet Spectrophotometric Screening Method	11	45	No Relaxation
13	Fluoride as F <sup>-</sup>	mg/l	4500-F D, APHA 23 <sup>rd</sup> Edition 2017	0.39	1	1.5
14	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS:3025 -Part-23	36	200	600

Interpretation of results: Nil, Deviation from test method: Nil



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# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines,</b> <b>M/s Tarini Minerals Pvt. Ltd.</b>		<b>Test Report No. :</b> BSET/2021/WS-02095	
<b>Sample Description:</b> Drinking Water Sample		<b>Lab Code No</b> : 210840507	<b>Issue Date</b> : 19.07.2021
<b>Quantity</b> : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)		<b>Date of Registration</b>	09.07.2021
<b>Packing</b> : Plastic Bottles& Pre-Sterilized Bottle		<b>Date of commencement of testing</b>	09.07.2021
<b>Test Required</b> : As given below		<b>Date of completion of testing</b>	19.07.2021
		<b>Sample condition at receipt</b>	Found ok
		<b>Sample tested as received</b>	
<b>Date of Sampling:</b> 06.07.2021 <b>Location of Sampling:</b> At Camp Inlet Water		<b>Sampling Details</b> <b>Sampling Method/Procedure:</b> IS 3025 Part 1 <b>General Environment conditions:</b> Ok	

Page No: 2 of 2

### TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15	Boron as B	mg/l	4500-B B. Curcumin Method, APHA 23 <sup>rd</sup> Edition 2017	< 0.10	0.5	1
16	Aluminium as Al	mg/l	3500 Al B – Erochrome Cyanine R method	< 0.02	0.03	0.2
17	Copper as Cu	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	0.1	0.3
19	Selenium as Se	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of AOPHA 23 <sup>rd</sup> Edition 2017	< 0.02	0.05	No Relaxation
26	Total Coliforms	CFU/100ml	IS: 1622 – 1981	Absent	-	-

Interpretation of results: Nil, Deviation from test method: Nil



... End of the Report...

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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022

## TEST REPORT

<b>Name &amp; Address of the Customer :</b> Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	<b>Test Report No. :</b> BSET/2021/WS-02096
<b>Sample Description:</b> Drinking Water Sample	<b>Lab Code No :</b> 210840407
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)	<b>Issue Date :</b> 19.07.2021
<b>Packing :</b> Plastic Bottles& Pre-Sterilized Bottle	<b>Your Ref :</b> Letter Dated 09.07.2021
<b>Test Required :</b> As given below	<b>Date of Receipt :</b> 09.07.2021
<b>Sampling Details</b>	
<b>Date of Sampling:</b> 06.07.2021	<b>Sampling Method/Procedure:</b> IS 3025 Part 1
<b>Location of Sampling:</b> At Camp Outlet Water ( Pantry )	<b>General Environment conditions:</b> Ok
<b>Page No:</b> 1 of 2	

### TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1	Odour	--	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2	Colour	Hazen Units	IS:3025 -Part-4	< 5	5	15
3	pH	--	IS:3025- Part-11	6.65	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5	Total Hardness as CaCO <sub>3</sub>	mg/l	IS:3025 -Part-21	138	200	600
6	Iron as Fe	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	0.08	1.0	No Relaxation
7	Chlorides as Cl	mg/l	IS:3025 -Part-32	75	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	356	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	44	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	6.8	30	100
11	Sulphate as SO <sub>4</sub>	mg/l	4500-SO <sub>4</sub> E, Turbidity Method, APHA 23 <sup>rd</sup> Edition 2017	52	200	400
12	Nitrate as NO <sub>3</sub>	mg/l	4500-NO <sub>3</sub> B Ultraviolet Spectrophotometric Screening Method	29	45	No Relaxation
13	Fluoride as F <sup>-</sup>	mg/l	4500-F D, APHA 23 <sup>rd</sup> Edition 2017	0.45	1	1.5
14	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS:3025 -Part-23	90	200	600

Interpretation of results: Nil, Deviation from test method: Nil



\*Complaints Register is available at Laboratory.

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**B.S. ENVI - TECH PVT. LTD.**  
Recognized by MoEF & CC, Gol: Valid upto August, 2022

**TEST REPORT**

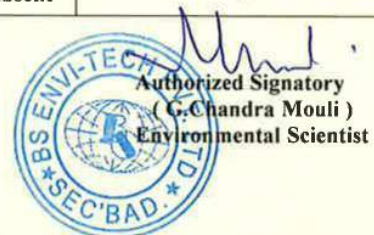
<b>Name &amp; Address of the Customer :</b> <b>Deojhar Iron Ore Mines,</b> <b>M/s Tarini Minerals Pvt. Ltd.</b>	<b>Test Report No. :</b> BSET/2021/WS-02096 <b>Lab Code No :</b> 210840407 <b>Issue Date :</b> 19.07.2021 <b>Your Ref :</b> Letter Dated 09.07.2021 <b>Date of Receipt :</b> 09.07.2021
<b>Sample Description:</b> Drinking Water Sample	<b>Date of Registration</b> : 09.07.2021 <b>Date of commencement of testing</b> : 09.07.2021 <b>Date of completion of testing</b> : 19.07.2021 <b>Sample condition at receipt</b> : Found ok <b>Sample tested as received</b>
<b>Quantity :</b> 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)	
<b>Packing :</b> Plastic Bottles & Pre-Sterilized Bottle	
<b>Test Required :</b> As given below	
<b>Sampling Details</b>	
<b>Date of Sampling:</b> 06.07.2021 <b>Location of Sampling:</b> At Camp Outlet Water ( Pantry )	<b>Sampling Method/Procedure:</b> IS 3025 Part 1 <b>General Environment conditions:</b> Ok
<b>Page No: 2 of 2</b>	

**TEST RESULTS**

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15	Boron as B	mg/l	4500-B B. Curcumin Method, APHA 23 <sup>rd</sup> Edition 2017	< 0.10	0.5	1
16	Aluminium as Al	mg/l	3500 Al B – Eroochrome Cyanine R method	< 0.02	0.03	0.2
17	Copper as Cu	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	0.1	0.3
19	Selenium as Se	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zn	mg/l	3111 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 <sup>rd</sup> Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APHA 23 <sup>rd</sup> Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of A0PHA 23 <sup>rd</sup> Edition 2017	< 0.02	0.05	No Relaxation
26	Total Coliforms	CFU/100ml	IS: 1622 – 1981	Absent	-	-

Interpretation of results: Nil, Deviation from test method: Nil

\*\*\* End of the Report\*\*\*



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