

NAME OF THE PROJECT:
DEOJHAR IRON ORE MINES OF
M/s TARINI MINERALS PVT. LTD.

CLEARANCE LETTER NO. & DATE:
SEIAA CLEARANCE LETTER NO.:

- **SEIAA/26/9, DATED. 27.11.2009 AND**
- **3427/SEIAA, DATED 30.05.2015.**

PERIOD OF COMPLIANCE REPORT:
APRIL-2020 TO SEPTEMBER-2020

TARINI MINERALS PVT. LTD.

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

Ref. No. DIOM/TM/EC-COMP/20-21 - 66

Date: 24.11.2020

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

Sub: **Half yearly Environmental Clearance Compliance Report of Deojhar Iron Ore Mining Project of M/s. Tarini Minerals Pvt.Ltd. for the period, April-2020 to September- 2020 – Reg.**

- Ref: 1. SEIAA Clearance letter no. SEIAA/26/9, dated 27.11.2009
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

Sir,

With reference to the above cited subject and gazette notification, we are submitting herewith the six monthly compliance report in soft copy by E-mail and also uploading the same in our company website with comprehensive data analysis for the period of **April-2020 to September- 2020**.

This for your kind information, please.

Yours Faithfully

For M/s. Tarini Minerals Pvt. Ltd


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

Encl. •

As above & Compliance Copy with detailed analysis report and supporting photographs and monitoring data.

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
2. The Zonal Officer, Central Pollution Control Board, Eastern Zonal Office, Kolkata, E mail: zokolkatta.cpcb@nic.in
3. The Chairman, State Pollution Control Board, Orissa, A/118, Nilakantha Nagar, Unit – VIII, Bhubaneswar – 751012,
E mail: paribesh1@ospcboard.ord
4. The Regional Director, Central Ground Water Board, Government of India, South Eastern Region, Bhubaneswar – 751030.
E mail: rdser-cgwb@nic.in

**Six Monthly E.C Compliance
report for
Deojhar Iron Ore Mines
Of
M/s. Tarini Minerals Pvt. Ltd.
For the period of
April-2020 to September-2020**

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

SL. No.	SPECIFIC CONDITION	COMPLIANCE
1	<p>The applicant (Project Proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, water pollution, noise pollution and land pollution including solid waste management as mentioned by him in Form-I, Final EIA Reports And Environment Management Plan (EMP) in compliance with prescribed statutory norms and standards.</p>	<p>The project proponent has taken up adequate measures for prevention, control and mitigation of air pollution by water sprinkling on haul road with the help of water tankers for dust suppression being carried out regularly and dry fog system are installed in the screen & crusher plants.</p> <p>Retaining walls cumulatively 526 m along with garland drain has been constructed all around the mines dump which is sub-grade in nature to prevent mines run-off water to the nearby water bodies.</p> <p>Regular maintenance of HEMMs and other vehicles are being carried to ensure the maximum reduction in noise pollution and create an efficient environment for employees to work for.</p> <p>There is 1 No. of stabilized OB dump, and are 01 no. of sub grade dump which are stabilized at ear marked area with proper sloping and terracing, and coir matting for better stabilization.</p> <p>The photos regarding the same has been shown as below in Photo —3 and 4.</p>
2	<p>The applicant will take necessary steps for socio economic development after a detailed Primary Socio-economic Survey of the people of Core area on need based assessment for providing employment, education, health, drinking water and sanitation, road and communication</p>	<p>Different projects has been undertaken in consultation with "JANASADHANA" for the socio-economic development of the local belongs to adjoining villages with development of Infrastructure, Health, Sanitation, Education, drinking water & sanitation etc. All the financial</p>

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<p>facilities etc. A report is to be submitted by the proponent to SEIAA regularly on 1st June and 1st December of each calendar year.</p>	<p>details are provided Table No-01 and socio-Economic Development Activities are as follows which is in practice on continual basis:</p> <p><u>INFRASTRUCTURE -</u></p> <ul style="list-style-type: none">) Repairing and black topping of Village Road connecting Road from Deojhar to Murgabeda being carried as & when required.) Repairing of interior village roads. <p><u>EDUCATION</u></p> <ul style="list-style-type: none">) The school at village Murgabeda got improved by providing the teaching facility with the appointment of teachers from 2009 onwards.) We are providing teachers at Mahadevnasa, Kuldum Village primary school from 2010.) We have appointed one teacher at Sialijoda primary school in 2013.) Renovation of school building & Angnabadi compound wall, etc.) Additional School Bus provided to adjoining villages.) Additional teachers have been posted in the adjoining villages.) Distribution of Uniforms, Books, slates, pencil, etc. to the school students.) Mid-day meal is being provided at free of cost for class IX & X at Deojhar High School.) Facilitating the Independence & Republic Day functions at adjoining schools by funding the entire celebration by extending
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		<p>various tournaments among school children.</p> <p><u>HEALTH</u></p> <ul style="list-style-type: none">) Health-Check-up camp covering adjoining villages and free supply of medicines have been conducted.) Extending the Dispensary along with the ambulance facility to local villages with the availability Doctor & Staff and free medicine. <p><u>DRINKING WATER FACILITY & SANITATION</u></p> <ul style="list-style-type: none">) 2. No's of deep bore wells got provided at village Murgabeda and one deep bore-well for Silijoda village.) Regular & periodical supply of drinking water to the adjoining villages with the water tankers. <p><u>OTHER PERIPHERAL ACTIVITIES</u></p> <ul style="list-style-type: none">) Murga Mahadev Temple renovation work (Bathing area has been tiled & guard bars, Cloth changing room, Glazed tiled Bench, etc.) already completed.) Regular maintenance of temple housekeeping, etc.) Conducting game and entertainment programmed for local villagers. <p><u>EMPLOYMENT OPPORTUNITIES</u></p> <ul style="list-style-type: none">) Locals from adjoining villages are engaged in various activities of mines.) Besides the above Temple
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		<p>maintenance staff comprises 3.No. of Lady Employees are from Local villages.</p> <p>) Posting of additional teachers in schools from locality.</p> <p>) Development of self-help groups for villagers is under planning.</p>
3	The applicant will comply with the points concerns and issues raised by the people during public hearing on 4th February, 2009 in accordance with the commitments made by him thereon.	<p>We have full-filled the commitment regarding the demands raised during the public hearing and compliance are made as per the commitments i.e. Infrastructure development, Health, Sanitation, Education, etc. All the raised points are addressed and complied. The details have been attached here in Table - 2.</p>
4	The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.	<p>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.</p> <p>Forest Clearance from MoEF (copy attached as Annexure – 1), Consent to Operate from SPCB, Orissa vide letter No.: 2603/IND-I-CON-1373 date 14.03.2019 (copy attached as Annexure – 2), Approved Mining Scheme from IBM for the period 2019-20 to 2023-24 vide letter No.MS/FM/39-ORI/BHU/2018-19/2501 dated. 25.01.2019 (copy attached as Annexure – 3).</p>
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	<p>Half yearly compliance is being submitted as per the EC conditions on time to time basis. The half yearly compliance status reports are mentioned in Table no.03.</p>

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	Environmental Impact Assessment Authority (SEIAA), Orissa on 1 st June and 1 st December of each calendar year.	
6	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.	The project has already established AAQ monitoring station as per CTO issued by SPCB in the core as well as buffer zone of the ML area. There are 2 no. of monitoring station in core zone i.e. Mines Office and Near Exit Gate and there are 02 no. of Monitoring stations in the buffer zone i.e. Murgabeda Village, Boneikela Village and Bileipada village. Monitoring of AAQ is being carried out every month. The summerized report of the AAQ is attached in Annexure - 4.
7	The proponent shall submit ground tooting baseline data on flora and fauna and CSR activities already carried out within three months to the SEIAA, Orissa.	<p>The site specific Wildlife Conservation Plan has been approved by PCCF (Wildlife), Chief Wildlife Warden, Odisha. The project has estimated cost of Rs. 54 Lakhs which includes cost for both buffer zone i.e. Rs. 41 Lakhs which is already deposited through RTGS No. BARBH4179631316 dated. 28.06.2014 in favor of CA Fund and core zone i.e. Rs. 13 Lakhs for the conservation and management of wildlife.</p> <p>Project proponent has appointed 4 nos. of watchers for protection of wild animals with the expenditure of Rs. 3.8 Lakhs/annum. Apart from that, the project proponent has constructed check dam & check weirs to restrict the mixing of undesired substances in nearby streams & also established guard wall along the sides of nallas.</p> <p>The copy of the same is attached as Annexure — 5 (approval letter).</p>
8	No two pits shall be simultaneously worked. After exhausting the first mine pit	There is only one mines pit i.e. Pit No.-1 which is still active. The project is

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	<p>and before starting mining operations in the next pit, reclamation and plantation 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.</p>	<p>operating according to the above mentioned condition and following as per the approved mining scheme/plan including PMCP as approved by IBM.</p>
9	<p>Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.</p>	<p>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.</p> <p>The project has done cumulatively 42, 870 numbers of saplings in and around the ML area till the reporting period out of which 300 Nos. have has been planted in the reporting period with different varieties of native species in the safety zone, & peripheral area of ML photo of the same is attached as photo – 4 & 7.</p> <p>Plantation details have been given in table – 4.</p>
10	<p>Zero waste mining concept shall be implemented either by putting up pelletisation plant or disposal of low grade ores/fines to prospective buyers.</p>	<p>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.</p>
11	<p>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</p>	<p>The project has taken the following steps</p> <ol style="list-style-type: none"> a. Run off generated from Dump areas are being diverted to settling pits with proper checks before disposal to natural water

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	in the core zone, (c) attempt should be made to achieve zero water balance.	<p>bodies.</p> <p>b. We have implemented the roof top rain water harvesting structures and settling pits cum harvesting structures in the mines areas towards recharge of the ground water.</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	Maintenance of roads through which transportation of ores are undertaken shall be carried by the project regularly at its own cost.	<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 & potholes. The project is also ensuring the tarpulin 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 photo # 13.</p>
13	Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of nearest human habitation (including schools and other public amenities located nearest to sources of dust generation as applicable) and records shall be submitted to the SEIAA, Orissa.	<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</p>

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		analysis report of the same is attached as Annexure – 6.
14	Transportation of ore shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore /dust takes place.	The steps are being followed by proper care towards public roads to ensure that the trucks should not be overloaded during transportation: besides these trucks are being covered with tarpaulins while transportation of the iron ore. Time to time awareness program is being carried out for the operators/drivers etc. towards the same. Photo of the same is attached as photo # 13.
15	Rain water harvesting shall be undertaken to recharge the ground water source.	In the entire area, where ever possibility of wash off, flow of sediments etc. is anticipated retaining wall, garland drain, check weirs have been provided apart from that the roof top rain water harvesting structure got implemented towards augmentation of ground water in the camp area. Photo of the same has been attached as Photo – 12.
16	Monitoring of ground and surface water quality shall be regularly conducted and records should be maintained and data shall be submitted regularly to SEIAA, Orissa.	Regular monitoring of the ground water quality on quarterly basis, as per the monitoring locations there are 4 nos. of locations and monitoring of the surface water quality is also being carried out in 5 nos. locations. The records are also maintained for this purpose & it's being monitored 4 times in a year i.e. pre-monsoon, monsoon, post monsoon and winter. The monitoring of ground and surface water quality records being submitted to SEIAA, Orissa on half yearly basis and Regional Office of MoEF&CC, Bhubaneswar. The summarized analysis report of the same is attached as Annexure – 7 & 8.
17	The proponent shall ensure that no silt originating due to mining activity is transported in the surface water course.	The project has provided necessary precautionary measures like siltation pit , retaining walls and garland drains at the

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	<p>Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geotextile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.</p>	<p>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. 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 Photo 2,8, 9 & 10.</p>
18	<p>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.</p>	<p>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.</p>
19	<p>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.</p>	<p>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.. The photograph of the temporary housing structure along with STP-Ultra Filtration Unit facility has been shown in Photo — 11.</p>
20	<p>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</p>	<p>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</p>

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	<p>for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness program for workers on impact of mining on their health and precautionary measures like use of personal equipment's etc. shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years or less) shall be conducted followed by follow up action wherever required. Occupational Health center shall be established near the mine itself.</p>	<p>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 only 01 number of PME has been carried out. Sample PME copy is attached as Annexure#09.</p>
21	<p>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.</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. A safety zone of 7.5 m width around the ML boundary is being maintained. The project has cumulatively done 42,870 numbers of saplings in and around the ML area till date with different varieties of native species in the safety zone, & peripheral area of ML.</p>
22	<p>This environmental clearance is subjected to forest clearance under the Forest (Conservation) Act, 1980.</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>

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23	The mining operation shall be restricted to above ground water table and it should not intersect the groundwater table.	The Project proponent working at a depth of 590 aMSL which is far above the ground water level and ground water level exist 540 aMSL. The ultimate depth of the bottom of the approval Mining Scheme is at 548m RL. Therefore, intersection of ground water table during the whole life of the ML area shall not be obstructed. However, the Project has carried out a detailed study on hydrology and hydro-geological aspect of the area through an expert agency and base line data developed for future reference.
24	The top soil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long (not more than 3 years). The topsoil shall be used for land reclamation and plantation.	There is no generation of the top soil during mining operations. In case of top soil generation generated in future, it should be stored in an earmarked area and necessary precaution may be taken to preserve its nutrient values.
25	The over burden (OB) generated during the mining operation shall be temporarily stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and its phase-wise stabilization shall be carried out. Proper terracing of OB dump shall be carried out so that the overall slope shall not exceed 28° Back filling shall be done as per approved mining plan; back filling to start from 3rd year onwards of the mining operations and the entire quantity of waste shall be backfilled and liquidated within five years. There shall be no external OB dumps after the 6th year of the mining operations. The backfilled area shall be afforested. Backfilling has to be done in a manner that it is restored to the normal ground level. Monitoring and management of rehabilitated areas should continue till the vegetation is established	At present there is 1 OB dump which is stabilized with grass seeding followed by plantation. As per mining plan the OB which is generated or will be generated will be utilized for road making purpose.

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	and becomes self-generating compliance status to be reported to the appropriate authorities.	
26	The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes. Year wise expenditure for these funds should be reported to the SEIAA, Orissa.	The funds earmarked for environmental protection are being utilized for the same. The year wise environmental expenses are shown in table No. 05 .
27	The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this environmental clearance and attract action under the provisions of Environmental Protection (EP) Act, 1986.	We are abiding by the said conditions.
Sl. No.	Additional Environmental Clearance condition of mining projects vide. OM of MoEF&CC, F.No. 22-34/2018-IA.III dated: 16.01.2020 in respect of Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	Compliance Status
01	The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	We will abide by the condition. At present the mining operation is going on and the mineral is not exhausted at all & it's also duly approved by the IBM in Mining Plan. Therefore, after ceasing of the mining operation or exhaust of minerals, we will undertake re-grassing of the disturbed land due mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. as duly approved in Mining Plan by IBM.

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TABLES

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 – Year Wise CSR Expenses

Sl. No	Description					
		For the year 2016-17	For the year 2017-18	For the year 2018-19	For the year 2019-20	For the year 2020-21
1	Infrastructure	0.58	0.8	0.2	4.77	1.581
2	Education	5.84	6.01	5.57	6.02	0.58
3	Health	8.53	8.36	5.01	5.32	1.65
4	Drinking Water Facility	0.18	2.04	0.45	1.42	0.24
5	Other Peripheral Activities	1.089	3.52	2.34	1.42	0.74
7	Total	16.219	20.73	13.57	18.95	4.791

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 Annexure –1 .

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2	To construct Check dam for Mahadev Nasa Nalla and for this the project proponent invited the village committee to come with a proposal for the same.	We ensure that natural watercourse of Mahadev Nalla will not be obstructed due to our mining operations. Necessary precautionary measures were well taken in consultation with Govt. bodies to avoid any sort of interference like providing guard wall & check weir at bank of Mahadev Nallah.
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

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	tanker and will continue this facility.	around 1000 no's.
8	The Project proponent is ready to construct inter village connecting roads in Murgabeda village and they invited proposal from the village committee for the same.	Inter connecting village roads are made up of black top in length of 1.8 Km to suppress the dust. The photo of the same is enclosed as photo 5.
9	The project proponent has already opened a dispensary here for locals for availing medical facility free of cost where a doctor is available. One Ambulance is always available there at service.	Medical facilities like dispensary and ambulances are being provided. Medical health camp is being organized at regular intervals for the local villagers with free of cost medicines. The photo of the same is enclosed as photo 6.
10	Regarding electrification of villages, we have requested the concerned Village committee along with Sarpancha to come forward with the latest status and the proposal so that they can support and assist the village committee for electrification.	It is being carried out with the village committee members by providing materials for Street Light Connections to nearby villages.
11	The Project Proponent assured that they are following all the Govt. rules regarding employment and statutory payments.	It is being followed.
12	The project proponent requested the Murgabeda Temple committee to come with a proposal so that they can consider for its renovation.	Temple renovation work is completed with the proposals of Temple Committee members. The bathing area has been developed with anti-slippery tiles and guard bars and a cloth changing room have provided. Two male and three female labours have deployed for proper up- keep of the temple.

Reporting Period: April-2020 to September-2020

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 2020 to March 2020	20.05.2020
2	April 2019 to September 2019	18.11.2019
3	October 2018 to March 2019	25.04.2019
4	April 2018 to September 2018	20.11.2018
5	October 2017 to March 2018	30.05.2018
6	April 2017 to September 2017	25.11.2017
7	October 2016 to March 2017	25.05.2017
8	April 2016 to September 2016	19.11.2016
9	October 2015 to March 2016	25.05.2016
10	April 2015 to September 2015	16.11.2015
11	October 2014 to March 2015	26.05.2015
12	April 2014 to September 2014	22.11.2014
13	October 2013 to March 2014	25.05.2014

Table 4- Plantation Details

Deojhar Iron Ore Mines of M/s Tarini Minerals (P) Ltd.				
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, Krushna chuda, Radhachude, Sal, Chatian, Sisoo, Mango 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 (Till Sept-2020)	300	Safety zone (Gap filling) & bench plantation	

Reporting Period: April-2020 to September-2020

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	2020-21 (April-20 to Sept-20)
1	Dry-fog system installed & maintenance	0.08
2	Water tankers two no's for water sprinkling	0.8
3	Plantation program with maintenance cost	0.10
4	Purchasing Env. Instrument, calibration & environment monitoring etc.	1.5
5	Occupational Health & Hygiene	2.56
6	Rain water harvesting structures	0.05
7	Site specific sewage treatment plant with maintenance	0.04
8	Service Centre cum ETP & its maintenance	0.03
Total amount incurred		5.16

Reporting Period: April-2020 to September-2020

ANNEXURES

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. S-216/1992-FC
Government of India
Ministry of Environment & Forests
(P.C. Division)

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

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

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

Sir,

I am directed to refer to your letter No. 18F (Cons)-20/07/1287 dated 17.07.2007 on the above cited subject, wherein the Ministry of Environment & Forests has been requested to make the forest clearance co-terminus with the revised Mining Lease period in respect of the above said proposal, under Section 2 of the Forest (Conservation) Act, 1980. The State Government of Orissa has also informed that the said Mining Lease has been transferred by the State Government from Sri Niranjan Patnaik to M/s Tarini Minerals P. Ltd. with prior approval of the Ministry of Mines, Government of India.

Ministry of Environment and Forests had accorded approval under Section 2 of the Forest (Conservation) Act, 1980 for diversion of 34.363 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 31.03.2014. However, it has been observed that prior permission of the Ministry of Environment & Forests has not been obtained while transferring the lease from Sri Niranjan Patnaik to M/s Tarini Minerals P. Ltd. and, therefore, this has been treated as a violation of the Forest (Conservation) Act, 1980 and, it has been decided that the User Agency shall be liable to pay Penal Compensatory Afforestation over an equal amount of non-forest land.

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

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

10/3/08

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

3. The User Agency should pay the cost of Wildlife Management Plan as per norms prescribed by the State Government vide letter No. 22296/P&E dated 30.12.2005.
4. Mining activities shall be allowed only after a valid Environmental Clearance for mining in the said area has been obtained by the User Agency.
5. 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 the Ministry vide letters No. 5-1/1998-FC (Pt. II) dated 18.09.2003, as well as letter No. 5-2/2006-FC dated 03.10.2006 in this regard.
6. 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.
7. All the funds received from the User Agency under the project shall be transferred to an Account No. 34490105970128 of Corporation Bank, Block-11, CDO Complex, Phase-I, Lodi Road, New Delhi-110002.
8. All other conditions stipulated at the time of forest clearance under Section-2 of the Forest (Conservation) Act, 1980 for the mining lease of 34.565 ha of forest land in Keonjhar district, vide this Ministry's letter dated 21.03.1993, 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, Of 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

Annexure- 2 : Consent to Operate Copy from OSPCB



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

Page 1 of 13

BY REGD. POST WITH AD

STATE POLLUTION CONTROL BOARD, ODISHA

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

CONSENT ORDER

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

CONSENT ORDER NO. 444

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

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

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

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

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

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

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

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

Details of Products Manufactured

Sl. No	Product	Quantity
01.	Iron Ore	1.5 MTPA

Details of Mineral Handling Plants /Units

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

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

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-7511

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

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.							
Summerized Monthly Average Ambient Air Quality Monitoring Report							
Sampling Location	Month	Ambient Air Quality Parameters in $\mu\text{gm}/\text{m}^3$					
		Range	P.M-10	P.M.-2.5	SO ₂	NO _x	CO
Mines Site office	May-20	Avg.	64.00	29.25	11.14	12.18	.....
	Jun-20	Avg.	68.25	23.13	10.50	12.33	.....
	Jul-20	Avg.	67.63	26.13	11.48	12.33	0.23
	Aug-20	Avg.	60.38	17.50	10.86	12.39	0.58
	Sep-20	Avg.	69.63	22.00	9.64	10.81	0.27
Exit Gate	May-20	Avg.	63.88	28.13	10.84	12.16	.....
	Jun-20	Avg.	69.13	24.13	9.99	12.08	.....
	Jul-20	Avg.	61.88	30.88	12.48	13.55	0.66
	Aug-20	Avg.	61.00	17.75	9.35	10.44	0.53
	Sep-20	Avg.	69.25	21.75	9.38	10.63	0.39
Village Murgabeda	May-20	Avg.	67.88	26.13	10.95	12.21	.....
	Jun-20	Avg.	58.13	15.63	10.03	12.24	.....
	Jul-20	Avg.	59.88	34.50	12.78	13.74	0.55
	Aug-20	Avg.	58.13	18.13	8.58	9.78	0.53
	Sep-20	Avg.	54.75	18.00	9.78	11.00	0.24
Village Bileipada	May-20	Avg.	66.13	23.25	10.40	11.80	.....
	Jun-20	Avg.	58.38	16.25	10.79	12.70	.....
	Jul-20	Avg.	59.13	40.13	12.69	13.91	0.61
	Aug-20	Avg.	59.88	20.25	8.55	9.94	0.50
	Sep-20	Avg.	60.38	18.38	9.44	11.40	0.25

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

Reporting Period: April-2020 to September-2020

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

Annexure – 5 : Wild Life Conservation Plan Copy

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

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

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

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

Sir,

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

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

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

Memo No. 1239 dt. 15.2.2010
Copy forwarded to the DFO, Keonjhar Division for information & necessary action
with reference to Memo No. 2562 dt. 8.7.09 of CF, Rourakela Circle.

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

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

Enc: One No. approval s-l.
WL Conservator. Admn

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	May-20	Avg.	208.75
	Jun-20	Avg.	279.88
	Jul-20	Avg.	201.50
	Aug-20	Avg.	182.63
	Sep-20	Avg.	165.50
Crusher/Screen plant	May-20	Avg.	199.13
	Jun-20	Avg.	334.63
	Jul-20	Avg.	241.50
	Aug-20	Avg.	185.50
	Sep-20	Avg.	206.00
Loading & Unloading Point	May-20	Avg.	187.13
	Jun-20	Avg.	229.00
	Jul-20	Avg.	159.25
	Aug-20	Avg.	162.88
	Sep-20	Avg.	174.50
<i>The above tests are carried by B.S Envi. Tech P. Ltd Laboratory & its accredited by NABL and MoEF&CC.</i>			

Reporting Period: April-2020 to September-2020

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

Annexure – 7: Ground Water Monitoring Report

Deojhar Iron Ore Mines						
M/s Tarini Minerals Pvt. Ltd.						
Ground Water Quality Report						
May-20						
Location			Murgabeda Village	Daldir Village	Deojhar Village	Bileipada Village
Sl. No.	Test Parameter	Units	Result			
1	Odour	...	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	<5	<5	<5	<5
3	pH	..	6.82	6.74	6.73	6.69
4	Turbidity	NTU	<1	<1	<1	<1
5	Total Hardness as CaCO ₃	mg/l	58	190	180	224
6	Iron as Fe	mg/l	0.09	0.08	0.11	0.13
7	Chlorides as Cl	mg/l	26	74	38	72
8	Total Dissolved solids	mg/l	120	468	364	428
9	Calcium as Ca	mg/l	16.0	52	40	60
10	Magnesium as Mg	mg/l	4.4	15	19	18
11	Sulphate as SO ₄	mg/l	12	24	21	54
12	Nitrate as NO ₃	mg/l	7.6	13	13	32
13	Flouride as F ⁻	mg/l	0.25	0.54	0.4	0.49
14	Total Alkalinity as CaCO ₃	mg/l	34	218	194	146
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	Arsenic as As	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
25	Chromium as Cr	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
26	Total Coliforms	CFU/ 100 ml	Absent	Absent	Absent	Absent

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

Reporting Period: April-2020 to September-2020

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

Deojhar Iron Ore Mines						
M/s Tarini Minerals Pvt. Ltd.						
Ground Water Quality Report						
September-2020						
Location			Murgabeda Village	Daldir Village	Deojhar Village	Bileipada Village
Sl. No.	Test Parameter	Units	Result			
1	Odour	...	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	<5	<5	<5	<5
3	pH	..	6.95	6.83	6.81	6.75
4	Turbidity	NTU	<1	<1	<1	<1
5	Total Hardness as CaCO ₃	mg/l	60	200	170	215
6	Iron as Fe	mg/l	0.08	0.07	0.13	0.15
7	Chlorides as Cl	mg/l	30	79	40	78
8	Total Dissolved solids	mg/l	135	495	364	428
9	Calcium as Ca	mg/l	18.0	54	36	58
10	Magnesium as Mg	mg/l	3.6	16	19	17
11	Sulphate as SO ₄	mg/l	15	29	25	51
12	Nitrate as NO ₃	mg/l	8.1	14	12	30
13	Flouride as F ⁻	mg/l	0.26	0.55	0.4	0.49
14	Total Alkalinity as CaCO ₃	mg/l	40	225	200	150
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	Arsenic as As	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
25	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-2020 to September-2020

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

Annexure – 8 : Surface Water Monitoring Report

Deojhar Iron Ore Mines							
M/s Tarini Minerals Pvt. Ltd.							
Surface Water Quality Report							
May-20							
Location			Suna Nadi U/S	Suna Nadi D/S	Mahad ev Nallah U/S	Mahad ev Nallah D/S	Baitarani River
Sl. No.	Test Parameter	Units	Result				
1	pH	...	6.68	6.74	6.62	6.74	6.74
2	Oil & Grease	mg/l	< 1	< 1	<1	< 1	<1
3	Total Suspended Solids	mg/l	72	89	78	86	62
4	Total Dissolved Solids @ 105°C	mg/l	180	204	182	190	184
5	BOD for 3 days at 27°C	mg/l	11	16	10	15	10
6	COD	mg/l	72	84	64	76	68
7	Chloride as Cl	mg/l	24	36	30	40	24
8	Phosphate as P	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
9	Sulphide as S ²⁻	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
10	Sulphates as SO ₄	mg/l	18	22	21	27	16
11	Total Volatile Suspended Solids (MLVSS)	mg/l	30	40	28	34	24
12	Colour	Hazen units	5	10	5	10	5
13	Odour	.....	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
14	Iron as Fe	mg/l	0.28	0.33	0.27	0.31	0.26
15	Flouride as F ⁻	mg/l	0.35	0.39	0.32	0.35	0.29
16	Boron as B	mg/l	<0.10	<0.10	< 0.10	< 0.10	< 0.10
17	Percent Sodium	....	42.5	45.2	41.9	44.2	42.7
18	Residual Sodium Carbonate	mg/l	21	11	5	Nil	16
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-2020 to September-2020

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	240	280	300	350	300

Deojhar Iron Ore Mines							
M/s Tarini Minerals Pvt. Ltd.							
Surface Water Quality Report							
Sep-20							
Location			Suna Nadi U/S	Suna Nadi D/S	Mahade v Nallah U/S	Mahade v Nallah D/S	Baitarani River
Sl. No.	Test Parameter	Units	Result				
1	pH	...	6.69	6.78	6.62	6.74	6.69
2	Oil & Grease	mg/l	< 1	< 1	<1	< 1	<1
3	Total Suspended Solids	mg/l	72	89	90	105	70
4	Total Dissolved Solids @ 105°C	mg/l	170	205	185	212	235
5	BOD for 3 days at 27°C	mg/l	12	18	8	14	19
6	COD	mg/l	72	108	58	107	92
7	Chloride as Cl	mg/l	19	24	25	28	25
8	Phosphate as P	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
9	Sulphide as S ²⁻	mg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
10	Sulphates as SO ₄	mg/l	15	22	16	21	17
11	Total Volatile Suspended Solids (MLVSS)	mg/l	23	37	29	35	18
12	Colour	Hazen units	5	10	5	10	5
13	Odour	.....	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
14	Ironas Fe	mg/l	0.24	0.26	0.29	0.33	0.24
15	Flouride as F ⁻	mg/l	0.31	0.3	0.36	0.38	0.28
16	Boron as B	mg/l	<0.10	<0.10	< 0.10	< 0.10	< 0.10
17	Percent Sodium	....	41.1	44.3	42.5	45.1	41.8
18	Residual Sodium Carbonate	mg/l	21	27	27	27	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

Reporting Period: April-2020 to September-2020

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

24	Lead as Pb	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
25	Mercury as Hg	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
26	Nickel as Ni	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
27	Total Arsenic as As	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
28	Total Chromimum as Cr	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
29	Total Coliforms	CFU/100 ml	240	300	170	220	280

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


Annexure – 9 : Sample PME copy

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

CERTIFICATE NO. T6233 St. King (Mines) PRO/10001473

Certified that Sri/Smt. *employed as _____ in _____ mine, Form B No _____ has been examined for an initial / periodical * medical examination. He/She* appears to be 52 years of age. The findings if the examination authority are given in the attached sheet, it is considered that Sri/Smt. MR. HALADHAR LOHAR

(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-examined 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.


Dr. RATANLAL SINGH, M.B.B.S
(Reg. No. 1257119 M.C.)
Trained in Occupational Health

Signature of the Examining Authority
Dr. RATANLAL SINGH, M.B.B.S
Name and Designation in Block Letters
Trained in Occupational Health

Place : HI-TECH DIAGNOSTIC CENTRE, JODA
Date : 31/10/20

* Delete whatever not applicable
** Original - To be kept with Examining Authority.
Pink Copy - To be handed over to Person Concerned.

Reporting Period: April-2020 to September-2020

PHOTOGRAPHS

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-1a &b: Mobile Water Tanker for dust suppression on mines haul



Photo-2 &3: Retaining wall along with Plantations at the toe of dump slopes

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: Plantation on Dump Slopes



Photo-5&6: Inter connecting village roads are made up of black top and 24 x7 Ambulance facilities

Reporting Period: April-2020 to September-2020

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-7: Safety Zone Plantation



Photo-8& 9: Settling cum water harvesting pit

Reporting Period: April-2020 to September-2020

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-10: Check Weir



Photo-11: STP for treatment of Domestic Waste Water (Ultra Filtration Unit)



Photo-12: Roof top Rain Water Harvesting structure & Recharge pit

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-13: Mineral dispatch truck with tarpaulin cover on top

ENVIRONMENT MONITORING REPORTS

DEOJHAR MINES

AAQ REPORT

MAY-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM/IM /ENV/2020/AAQ/2020 -05				Issued to:
Reporting Date	29.05.2020	Analysis Starting on	29.05.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	
Sample Description: Ambient Air Quality				
Location	: Mines Office			
Month	: May -2020			
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6
1	04/05/2020	74	30	11.3	12.2
2	07/05/2020	62	29	10.5	11
3	11/05/2020	67	31	11.1	12.5
4	14/05/2020	59	29	11.3	12.9
5	18/05/2020	69	20	10.9	12.2
6	21/05/2020	61	28	10.3	10.9
7	25/05/2020	54	28	12.2	13.1
8	28/05/2020	66	39	11.5	12.6
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]

Legend:PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide


Authorized Signatory



*Complaints Register is available at Laboratory.

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

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Email : lab@bsenvitech.com, info@bsenvitech.com
Website : www.bsenvitech.com
CIN No. : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM/TM /ENV/2020/AAQ/2020 -05				Issued to:	
Reporting Date	29.05.2020	Analysis Starting on	29.05.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020		
Sample Description: Ambient Air Quality					
Location	: Exit Gate				
Month	: May -2020				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,					


S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6
1	04/05/2020	71	28	10.5	12.3
2	07/05/2020	68	35	11.6	12.8
3	11/05/2020	62	30	10.7	11.5
4	14/05/2020	53	25	10.3	11.2
5	18/05/2020	58	28	11.2	12.6
6	21/05/2020	67	22	11.4	12.8
7	25/05/2020	62	30	10.3	11.7
8	28/05/2020	70	27	10.7	12.4
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide


Authorized Signatory



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B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM/ TM/ENV/2020/AAQ/2020 -05				Issued to:	
Reporting Date	29.05.2020	Analysis Starting on	29.05.2020	Deojarh Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020		
Sample Description: Ambient Air Quality Location : Murgabeda Village Month : May-2020 Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6
1	04/05/2020	70	24	10.7	12.1
2	07/05/2020	75	39	11.1	12.3
3	11/05/2020	69	26	10.4	11.8
4	14/05/2020	59	21	11.3	12.5
5	18/05/2020	63	20	11.6	12.9
6	21/05/2020	70	19	11.8	13
7	25/05/2020	65	32	10.5	11.8
8	28/05/2020	72	28	10.2	11.3
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide


Authorized Signatory



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: DIOM/TM /ENV/2020/AAQ/2020 -05				Issued to:
Reporting Date	29.05.2020	Analysis Starting on	29.05.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt Ltd.
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	
Sample Description: Ambient Air Quality				
Location	: Bileipada Village			
Month	: May-2020			
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6
1	04/05/2020	62	23	9.8	10.6
2	07/05/2020	70	35	10.3	11.8
3	11/05/2020	65	22	9.8	10.7
4	14/05/2020	65	20	10.1	12.2
5	18/05/2020	68	15	10.1	11.5
6	21/05/2020	63	18	12.2	13.1
7	25/05/2020	71	28	10.1	12.3
8	28/05/2020	65	25	10.8	12.2
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide


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DEOJHAR MINES

AAQ REPORT

JUNE-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 -06				Issued to:	
Reporting Date	26.06.2020	Analysis Starting on	26.06.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	26.06.2020	Analysis Completed on	26.06.2020		
Sample Description: Ambient Air Quality					
Location	: Mines Office				
Month	: June -2020				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6
1	01/06/2020	66	22	12.4	13.7
2	04/06/2020	64	20	10.8	12.6
3	08/06/2020	71	27	11.0	13.1
4	11/06/2020	60	19	9.6	11.7
5	15/06/2020	79	30	10.2	12.5
6	18/06/2020	61	21	10.1	11.8
7	22/06/2020	77	28	9.6	10.8
8	25/06/2020	68	18	10.3	12.4
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- NitrogenDioxide


Authorized Signatory


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CIN No. : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 -06				Issued to:
Reporting Date	26.06.2020	Analysis Starting on	26.06.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	26.06.2020	Analysis Completed on	26.06.2020	
Sample Description: Ambient Air Quality				
Location : Exit Gate				
Month : June -2020				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6
1	01/06/2020	68	24	8.9	11.5
2	04/06/2020	72	28	9.4	11.7
3	08/06/2020	69	22	11.6	13.4
4	11/06/2020	70	20	8.7	10.5
5	15/06/2020	62	18	9.4	11.6
6	18/06/2020	73	24	10.2	12.6
7	22/06/2020	61	28	11.4	13.5
8	25/06/2020	78	29	10.3	11.8
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- 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

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 -06				Issued to:	
Reporting Date	26.06.2020	Analysis Starting on	26.06.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	26.06.2020	Analysis Completed on	26.06.2020		
Sample Description: Ambient Air Quality Location : Murgabeda Village Month : June-2020 Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6
1	01/06/2020	67	16	11.2	13.4
2	04/06/2020	54	14	12.6	14.5
3	08/06/2020	51	13	9.8	12.6
4	11/06/2020	58	16	9.3	11.9
5	15/06/2020	68	18	11.5	13.4
6	18/06/2020	49	12	9.7	11.2
7	22/06/2020	66	19	8.4	10.6
8	25/06/2020	52	17	7.7	10.3
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

Authorized Signatory

*Complaints Register is available at Laboratory.

4th 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 & CG, Gol: Valid upto August, 2022

TEST REPORT

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 -06				Issued to:	
Reporting Date	26.06.2020	Analysis Starting on	26.06.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	26.06.2020	Analysis Completed on	26.06.2020		
Sample Description: Ambient Air Quality					
Location : Bileipada Village					
Month : June-2020					
Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6
1	01/06/2020	55	14	12.4	14.2
2	04/06/2020	62	19	11.3	13.3
3	08/06/2020	66	21	12.6	13.2
4	11/06/2020	58	15	11.4	13.8
5	15/06/2020	53	12	10.2	12.3
6	18/06/2020	51	16	8.9	11.5
7	22/06/2020	68	19	10.2	12.6
8	25/06/2020	54	14	9.3	10.8
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

Authorized Signatory



*Complaints Register is available at Laboratory.

4th Floor, 'AMITY VILLE', 12-13-1270/71/73,
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CIN No. : U74210TG1999PTC032358

DEOJHAR MINES

AAQ REPORT

JULY-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM/ENV/2020/AAQ/2020 -07				Issued to:	
Reporting Date	31.07.2020	Analysis Starting on	31.07.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	31.07.2020	Analysis Completed on	31.07.2020		
Sample Description: Ambient Air Quality Location : Mines Office Month : July -2020 Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	06/07/2020	68	21	11.5	12.4	0.34
2	09/07/2020	75	26	10.4	11.6	0.26
3	13/07/2020	63	22	10.7	11.3	0.16
4	16/07/2020	69	27	12.5	13.2	0.19
5	20/07/2020	71	29	11.2	12.5	0.15
6	23/07/2020	73	31	11.7	12.1	0.18
7	27/07/2020	62	28	12.2	13.3	0.24
8	30/07/2020	60	25	11.6	12.2	0.28
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend:PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- NitrogenDioxide


Authorized Signatory


*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

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 -07				Issued to:
Reporting Date	31.07.2020	Analysis Starting on	31.07.2020	Deajhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	31.07.2020	Analysis Completed on	31.07.2020	
Sample Description: Ambient Air Quality				
Location		: Exit Gate		
Month		: July -2020		
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	06/07/2020	58	26	11.6	12.4	0.64
2	09/07/2020	64	32	12.7	13.6	0.76
3	13/07/2020	75	35	15.3	16.4	0.45
4	16/07/2020	69	33	12.4	13.2	0.49
5	20/07/2020	57	29	12.9	13.9	0.84
6	23/07/2020	62	27	11.5	12.7	0.90
7	27/07/2020	54	31	11.3	12.9	0.57
8	30/07/2020	56	34	12.1	13.3	0.59
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide


Authorized Signatory


*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

REPORT NO: DIOM/ TM /ENV/2020/AAQ/2020 -07				Issued to:	
Reporting Date	31.07.2020	Analysis Starting on	31.07.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. I.td.	
Sample Received on	31.07.2020	Analysis Completed on	31.07.2020		
Sample Description: Ambient Air Quality					
Location	: Murgabeda Village				
Month	: July-2020				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,					


S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	06/07/2020	59	34	11.7	12.4	0.54
2	09/07/2020	67	39	12.9	13.6	0.59
3	13/07/2020	64	37	13.4	14.3	0.64
4	16/07/2020	57	35	12.6	13.5	0.47
5	20/07/2020	53	31	13.2	14.8	0.64
6	23/07/2020	49	29	12.8	13.7	0.37
7	27/07/2020	56	33	13.1	14.5	0.41
8	30/07/2020	74	38	12.5	13.1	0.67
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide


Authorized Signatory



*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

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 -07				Issued to:	
Reporting Date	31.07.2020	Analysis Starting on	31.07.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	31.07.2020	Analysis Completed on	31.07.2020		
Sample Description: Ambient Air Quality Location : Bileipada Village Month : July-2020 Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	06/07/2020	61	36	12.5	13.1	0.59
2	09/07/2020	59	31	13.4	14.6	0.57
3	13/07/2020	67	42	12.6	13.9	0.46
4	16/07/2020	62	40	11.8	13.0	0.72
5	20/07/2020	57	38	12.4	14.2	0.64
6	23/07/2020	53	41	13.2	14.5	0.58
7	27/07/2020	58	45	12.7	13.7	0.62
8	30/07/2020	56	48	12.9	14.3	0.67
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide


Authorized Signatory



*Complaints Register is available at Laboratory.

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DEOJHAR MINES

AAQ REPORT

AUGUST-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM / ENV/2020/AAQ/2020 -08				Issued to:	
Reporting Date	31.08.2020	Analysis Starting on	31.08.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	31.08.2020	Analysis Completed on	31.08.2020		
Sample Description: Ambient Air Quality					
Location		: Mines Office			
Month		: August -2020			
Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/08/2020	67	18	11.6	13.6	0.48
2	06/08/2020	61	15	12.6	14.8	0.66
3	10/08/2020	68	21	11.1	11.7	0.71
4	13/08/2020	54	17	10.3	12.4	0.52
5	17/08/2020	59	15	10.5	11.5	0.71
6	20/08/2020	57	16	9.9	10.7	0.52
7	24/08/2020	55	18	10.8	11.9	0.49
8	27/08/2020	62	20	10.1	12.5	0.54
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- NitrogenDioxide


Authorized Signatory


*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

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 - 08				Issued to:	
Reporting Date	31.08.2020	Analysis Starting on	31.08.2020	Deojhar Iron Ore Mines,	
Sample Received on	31.08.2020	Analysis Completed on	31.08.2020	M/s Tarini Minerals Pvt. Ltd.	
Sample Description: Ambient Air Quality					
Location : Exit Gate					
Month : August -2020					
Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/08/2020	71	25	9.1	10.2	0.41
2	06/08/2020	63	20	8.2	9.7	0.78
3	10/08/2020	61	23	9.5	10.3	0.34
4	13/08/2020	59	12	8.2	10.4	0.47
5	17/08/2020	56	16	10.4	11.2	0.61
6	20/08/2020	57	12	9.8	10.2	0.44
7	24/08/2020	61	18	10.3	11.4	0.51
8	27/08/2020	60	16	9.3	10.1	0.64
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide



Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM / ENV/2020/AAQ/2020 -08				Issued to:	
Reporting Date	31.08.2020	Analysis Starting on	31.08.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	31.08.2020	Analysis Completed on	31.08.2020		
Sample Description: Ambient Air Quality Location : Murgabeda Village Month : August-2020 Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
		[µg/m ³]	[µg/m ³]	[µg/m ³]	[µg/m ³]	[mg/m ³]
Protocol		IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/08/2020	63	20	7.2	8.9	0.43
2	06/08/2020	60	19	8.9	9.7	0.51
3	10/08/2020	52	16	9.2	10.2	0.35
4	13/08/2020	57	15	8.6	9.5	0.48
5	17/08/2020	61	21	7.3	9.2	0.59
6	20/08/2020	50	18	9.4	10.4	0.68
7	24/08/2020	69	22	8.7	9.8	0.57
8	27/08/2020	53	14	9.3	10.5	0.62
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide



Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM / ENV/2020/AAQ/2020 -08				Issued to:
Reporting Date	31.08.2020	Analysis Starting on	31.08.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	31.08.2020	Analysis Completed on	31.08.2020	
Sample Description: Ambient Air Quality Location : Biletpada Village Month : August-2020 Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

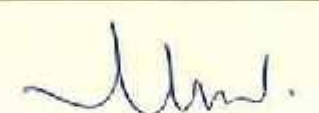
S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/08/2020	54	17	9.1	10.2	0.67
2	06/08/2020	66	26	7.3	9.5	0.34
3	10/08/2020	61	23	7.8	9.3	0.46
4	13/08/2020	59	19	9.6	10.3	0.52
5	17/08/2020	68	25	9.7	10.8	0.29
6	20/08/2020	51	14	8.3	9.4	0.41
7	24/08/2020	63	20	9.0	10.2	0.57
8	27/08/2020	57	18	7.6	9.8	0.72
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide


Authorized Signatory



*Complaints Register is available at Laboratory.

DEOJHAR MINES

AAQ REPORT

SEPTEMBER-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 - 09				Issued to:	
Reporting Date	26.09.2020	Analysis Starting on	26.09.2020	Deojhr Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020		
Sample Description: Ambient Air Quality					
Location	: Mines Office				
Month	: September -2020				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/09/2020	76	26	8.7	11.2	0.31
2	07/09/2020	69	18	10.3	11.3	0.42
3	10/09/2020	70	24	8.7	10.1	0.25
4	14/09/2020	73	27	9.9	10.2	0.27
5	17/09/2020	74	23	9.7	11.5	0.24
6	21/09/2020	69	20	10.4	11.3	0.21
7	24/09/2020	61	18	9.6	10.2	0.26
8	28/09/2020	65	20	9.8	10.7	0.22
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend:PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

Authorized Signatory

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CIN No. : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM/ENV/2020/AAQ/2020 -09				Issued to:	
Reporting Date	26.09.2020	Analysis Starting on	26.09.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020		
Sample Description: Ambient Air Quality Location : Exit Gate Month : September -2020 Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/09/2020	77	27	9.2	10.8	0.39
2	07/09/2020	62	14	9.8	10.5	0.25
3	10/09/2020	66	17	8.3	11.2	0.39
4	14/09/2020	79	26	10.5	11.0	0.46
5	17/09/2020	55	16	8.6	9.9	0.21
6	21/09/2020	72	28	9.0	10.1	0.29
7	24/09/2020	70	22	10.3	11.4	0.51
8	28/09/2020	73	24	9.3	10.1	0.64
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend: PM₁₀-Particulate Matter (Size Less than 10µm)

PM_{2.5}-Particulate Matter (Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO:DIOM / TM /ENV/2020/AAQ/2020 -09				Issued to:	
Reporting Date	26.09.2020	Analysis Starting on	26.09.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020		
Sample Description: Ambient Air Quality Location : Murgabeda Village Month : September-2020 Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [$\mu\text{g}/\text{m}^3$]	PM _{2.5} [$\mu\text{g}/\text{m}^3$]	SO ₂ [$\mu\text{g}/\text{m}^3$]	NO ₂ [$\mu\text{g}/\text{m}^3$]	CO [mg/m^3]
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/09/2020	54	16	10.6	11.5	0.15
2	07/09/2020	61	22	9.7	10.3	0.20
3	10/09/2020	64	23	9.9	10.4	0.23
4	14/09/2020	62	27	8.4	11.1	0.36
5	17/09/2020	54	18	9.0	10.2	0.24
6	21/09/2020	50	12	10.3	11.5	0.26
7	24/09/2020	50	15	9.9	11.1	0.23
8	28/09/2020	43	11	10.4	11.9	0.21
NAAQ Standards (24 hourly standard)		100 [$\mu\text{g}/\text{m}^3$]	60 [$\mu\text{g}/\text{m}^3$]	80 [$\mu\text{g}/\text{m}^3$]	80 [$\mu\text{g}/\text{m}^3$]	02 [mg/m^3] (8 hourly)

Legend: PM₁₀-Particulate Matter (Size Less than 10 μm)

PM_{2.5}-Particulate Matter (Size Less than 2.5 μm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

Authorized Signatory



*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 -09				Issued to:	
Reporting Date	26.09.2020	Analysis Starting on	26.09.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.	
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020		
Sample Description: Ambient Air Quality					
Location	: Bileipada Village				
Month	: September-2020				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
		[$\mu\text{g}/\text{m}^3$]	[$\mu\text{g}/\text{m}^3$]	[$\mu\text{g}/\text{m}^3$]	[$\mu\text{g}/\text{m}^3$]	[mg/m^3]
Protocol		IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/09/2020	65	24	8.9	11.1	0.25
2	07/09/2020	55	14	10.2	12.3	0.31
3	10/09/2020	57	17	9.6	10.9	0.15
4	14/09/2020	60	20	10.1	12.2	0.29
5	17/09/2020	53	17	8.7	10.6	0.36
6	21/09/2020	68	17	9.2	10.8	0.15
7	24/09/2020	66	22	8.5	10.8	0.24
8	28/09/2020	59	16	10.3	12.5	0.23
NAAQ Standards (24 hourly standard)		100 [$\mu\text{g}/\text{m}^3$]	60 [$\mu\text{g}/\text{m}^3$]	80 [$\mu\text{g}/\text{m}^3$]	80 [$\mu\text{g}/\text{m}^3$]	02 [mg/m^3] (8 hourly)

Legend: PM₁₀-Particulate Matter (Size Less than 10 μm)

PM_{2.5}-Particulate Matter (Size Less than 2.5 μm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide


Authorized Signatory



*Complaints Register is available at Laboratory.

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DEOJHAR MINES

FUGITIVE DUST MONITORING REPORT

MAY-2020



B.S. ENVI - TECH PVT. LTD.

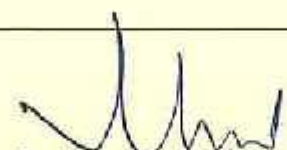
Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: DIOM/ TM/ENV/2020/AAQ/2020 -05				Issued to:
Reporting Date	29.05.2020	Analysis Starting on	29.05.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	
Sample Description: Fugitive Dust Monitoring				
Location : Mines Face/Haulage Road				
Month : May -2020				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	04/05/2020	253	1200 [$\mu\text{g}/\text{m}^3$]
2	07/05/2020	149	
3	11/05/2020	266	
4	14/05/2020	158	
5	18/05/2020	250	
6	21/05/2020	171	
7	25/05/2020	269	
8	28/05/2020	154	

Legend: SPM-Suspended Particulate Matter


Authorized Signatory



*Complaints Register is available at Laboratory

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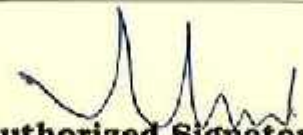
Recognized by MoEF & CC, Govt: Valid upto August, 2022

TEST REPORT

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 - 05				Issued to:
Reporting Date	29.05.2020	Analysis Starting on	29.05.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	
Sample Description: Fugitive Dust Monitoring				
Location : Crusher Plant				
Month : May -2020				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	04/05/2020	212	1200 [$\mu\text{g}/\text{m}^3$]
2	07/05/2020	191	
3	11/05/2020	177	
4	14/05/2020	189	
5	18/05/2020	206	
6	21/05/2020	234	
7	25/05/2020	199	
8	28/05/2020	185	

Legend: SPM-Suspended Particulate Matter


Authorized Signatory



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B.S. ENVI - TECH PVT. LTD.


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TEST REPORT

REPORT NO: DIOM / TM /ENV/2020/AAQ/2020 -05				Issued to:
Reporting Date	29.05.2020	Analysis Starting on	29.05.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	
Sample Description: Fugitive Dust Monitoring				
Location	: Loading/Unloading Point			
Month	: May -2020			
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	04/05/2020	160	1200 [$\mu\text{g}/\text{m}^3$]
2	07/05/2020	193	
3	11/05/2020	167	
4	14/05/2020	221	
5	18/05/2020	185	
6	21/05/2020	162	
7	25/05/2020	199	
8	28/05/2020	210	

Legend: SPM-Suspended Particulate Matter


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DEOJHAR MINES

**FUGITIVE DUST
MONITORING
REPORT**

JUNE-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM /ENV/2020/AAQ/2020 -06				Issued to:
Reporting Date	26.06.2020	Analysis Starting on	26.06.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	26.06.2020	Analysis Completed on	26.06.2020	
Sample Description: Fugitive Dust Monitoring Location : Mines Face/Haulage Road Month : June -2020 Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	01/06/2020	321	1200 [$\mu\text{g}/\text{m}^3$]
2	04/06/2020	254	
3	08/06/2020	284	
4	11/06/2020	310	
5	15/06/2020	268	
6	18/06/2020	255	
7	22/06/2020	287	
8	25/06/2020	260	

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

REPORT NO: DIOM / TM / ENV/2020/AAQ/2020 -06				Issued to:
Reporting Date	26.06.2020	Analysis Starting on	26.06.2020	Deojhar Iron Ore Mines,
Sample Received on	26.06.2020	Analysis Completed on	26.06.2020	
Sample Description: Fugitive Dust Monitoring				M/s Tarini Minerals Pvt. Ltd.
Location	: Crusher Plant			
Month	: June -2020			
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	01/06/2020	351	1200 [$\mu\text{g}/\text{m}^3$]
2	04/06/2020	362	
3	08/06/2020	342	
4	11/06/2020	325	
5	15/06/2020	320	
6	18/06/2020	316	
7	22/06/2020	334	
8	25/06/2020	327	

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

REPORT NO: DIOM / TM / ENV/2020/AAQ/2020 -06				Issued to:
Reporting Date	26.06.2020	Analysis Starting on	26.06.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd
Sample Received on	26.06.2020	Analysis Completed on	26.06.2020	
Sample Description: Fugitive Dust Monitoring				
Location	: Loading/Unloading Point			
Month	: June -2020			
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	01/06/2020	264	1200 [$\mu\text{g}/\text{m}^3$]
2	04/06/2020	285	
3	08/06/2020	267	
4	11/06/2020	249	
5	15/06/2020	167	
6	18/06/2020	184	
7	22/06/2020	213	
8	25/06/2020	203	

Legend: SPM-Suspended Particulate Matter


Authorized Signatory


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DEOJHAR MINES

**FUGITIVE DUST
MONITORING
REPORT**

JULY-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 -07				Issued to:
Reporting Date	31.07.2020	Analysis Starting on	31.07.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	31.07.2020	Analysis Completed on	31.07.2020	
Sample Description: Fugitive Dust Monitoring				
Location : Mines Face/Haulage Road				
Month : July -2020				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	06/07/2020	223	1200 [$\mu\text{g}/\text{m}^3$]
2	09/07/2020	216	
3	13/07/2020	207	
4	16/07/2020	220	
5	20/07/2020	198	
6	23/07/2020	176	
7	27/07/2020	166	
8	30/07/2020	206	

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

REPORT NO: DIOM / TM / ENV / 2020 / AAQ / 2020 - 07				Issued to:
Reporting Date	31.07.2020	Analysis Starting on	31.07.2020	Deojhar Iron Ore Mines,
Sample Received on	31.07.2020	Analysis Completed on	31.07.2020	
Sample Description: Fugitive Dust Monitoring				M/s Tarini Minerals Pvt. Ltd.
Location	: Crusher Plant			
Month	: July -2020			
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	STANDARD AS PER CFO
1	06/07/2020	285	1200 ($\mu\text{g}/\text{m}^3$)
2	09/07/2020	267	
3	13/07/2020	242	
4	16/07/2020	232	
5	20/07/2020	226	
6	23/07/2020	259	
7	27/07/2020	216	
8	30/07/2020	208	

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

REPORT NO: DIOM/ TM /ENV/2020/AAQ/2020 -07				Issued to:
Reporting Date	31.07.2020	Analysis Starting on	31.07.2020	Deojhar Iron Ore Mines,
Sample Received on	31.07.2020	Analysis Completed on	31.07.2020	
Sample Description: Fugitive Dust Monitoring				M/s Tarini Minerals Pvt. Ltd.
Location	: Loading/Unloading Point			
Month	: July -2020			
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	06/07/2020	162	1200 [$\mu\text{g}/\text{m}^3$]
2	09/07/2020	175	
3	13/07/2020	196	
4	16/07/2020	142	
5	20/07/2020	135	
6	23/07/2020	116	
7	27/07/2020	184	
8	30/07/2020	164	

Legend: SPM-Suspended Particulate Matter


Authorized Signatory



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DEOJHAR MINES

FUGITIVE DUST MONITORING REPORT

AUGUST-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM/ TM /ENV/2020/AAQ/2020 -08				Issued to:
Reporting Date	31.08.2020	Analysis Starting on	31.08.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	31.08.2020	Analysis Completed on	31.08.2020	
Sample Description: Fugitive Dust Monitoring				
Location	: Mines Face/Haulage Road			
Month	: August -2020			
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	03/08/2020	166	1200 [$\mu\text{g}/\text{m}^3$]
2	06/08/2020	178	
3	10/08/2020	192	
4	13/08/2020	145	
5	17/08/2020	138	
6	20/08/2020	205	
7	24/08/2020	221	
8	27/08/2020	216	

Legend: SPM-Suspended Particulate Matter


Authorized Signatory



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: DIOM / TM/ENV/2020/AAQ/2020 -08				Issued to:
Reporting Date	31.08.2020	Analysis Starting on	31.08.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	31.08.2020	Analysis Completed on	31.08.2020	
Sample Description: Fugitive Dust Monitoring Location : Crusher Plant Month : August -2020 Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	03/08/2020	184	1200 [$\mu\text{g}/\text{m}^3$]
2	06/08/2020	164	
3	10/08/2020	153	
4	13/08/2020	128	
5	17/08/2020	215	
6	20/08/2020	206	
7	24/08/2020	223	
8	27/08/2020	211	

Legend: SPM-Suspended Particulate Matter


Authorized Signatory



*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM/ TM/ENV/2020/AAQ/2020 -08				Issued to:
Reporting Date	31.08.2020	Analysis Starting on	31.08.2020	Deojhar Iron Ore Mines,
Sample Received on	31.08.2020	Analysis Completed on	31.08.2020	M/s Tarini Minerals Pvt. Ltd.
Sample Description: Fugitive Dust Monitoring				
Location	: Loading/Unloading Point			
Month	: August -2020			
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	03/08/2020	156	1200 [$\mu\text{g}/\text{m}^3$]
2	06/08/2020	145	
3	10/08/2020	151	
4	13/08/2020	137	
5	17/08/2020	184	
6	20/08/2020	166	
7	24/08/2020	189	
8	27/08/2020	175	

Legend: SPM-Suspended Particulate Matter


Authorized Signatory



*Complaints Register is available at Laboratory.

DEOJHAR MINES

FUGITIVE DUST MONITORING REPORT

SEPTEMBER-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

REPORT NO: DIOM / TM/ENV/2020/AAQ/2020 -09				Issued to: Dcojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Reporting Date	26.09.2020	Analysis Starting on	26.09.2020	
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020	
Sample Description: Fugitive Dust Monitoring Location : Mines Face/Haulage Road Month : September -2020 Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	03/09/2020	204	1200 [$\mu\text{g}/\text{m}^3$]
2	07/09/2020	166	
3	10/09/2020	132	
4	14/09/2020	156	
5	17/09/2020	177	
6	21/09/2020	128	
7	24/09/2020	189	
8	28/09/2020	172	

Legend: SPM-Suspended Particulate Matter


Authorized Signatory


*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

REPORT NO: DIOM / TM/ENV/2020/AAQ/2020 -09				Issued to:
Reporting Date	26.09.2020	Analysis Starting on	26.09.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020	
Sample Description: Fugitive Dust Monitoring				
Location : Crusher Plant				
Month : September -2020				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	03/09/2020	214	1200 [$\mu\text{g}/\text{m}^3$]
2	07/09/2020	208	
3	10/09/2020	224	
4	14/09/2020	216	
5	17/09/2020	188	
6	21/09/2020	179	
7	24/09/2020	216	
8	28/09/2020	203	

Legend: SPM-Suspended Particulate Matter


Authorized Signatory



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: DIOM / TM/ENV/2020/AAG/2020 -09				Issued to:
Reporting Date	26.09.2020	Analysis Starting on	26.09.2020	Deojhar Iron Ore Mines, M/s Tarini Minerals Pvt. Ltd.
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020	
Sample Description: Fugitive Dust Monitoring				
Location	: Loading/Unloading Point			
Month	: September -2020			
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	STANDARD AS PER CFO
1	03/09/2020	154	1200 [$\mu\text{g}/\text{m}^3$]
2	07/09/2020	130	
3	10/09/2020	120	
4	14/09/2020	117	
5	17/09/2020	234	
6	21/09/2020	213	
7	24/09/2020	207	
8	28/09/2020	221	

Legend: SPM-Suspended Particulate Matter


Authorized Signatory


*Complaints Register is available at Laboratory.

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DEOJHAR MINES

GROUND WATER QUALITY REPORT

MAY-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarnul Minerals Pvt. Ltd. Deojhar Iron Ore Mines	Test Report No. : BSET/2020/TR-02109
Sample Description: Ground Water Sample	Lab Code No : 200839105
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)	Issue Date : 01.06.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle	Your Ref : Letter Dated 25.05.2020
Test Required : As given below	Date of Receipt : 25.05.2020
	Date of Registration : 25.05.2020
	Date of commencement of testing : 25.05.2020
	Date of completion of testing : 01.06.2020
	Sample condition at receipt : Found ok
	Sample tested as received
Sampling Details	
Date of Sampling: 19.05.2020	Sampling Method/Procedure: IS 3025 Part 1
Location of Sampling: Murgabeda Village	General Environment conditions: 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	6.82	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	58	200	600
6	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.09	1.0	No Relaxation
7	Chlorides as Cl	mg/l	IS:3025 -Part-32	26	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	120	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	16	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	4.4	30	100
11	Sulphate as SO ₄	mg/l	4500-SO ₄ E, Turbidity Method, APHA 23 rd Edition 2017	12	200	400
12	Nitrate as NO ₃	mg/l	4500-NO ₃ B Ultraviolet Spectrophotometric Screening Method	7.6	45	No Relaxation
13	Fluoride as F ⁻	mg/l	4500-F D, APHA 23 rd Edition 2017	0.25	1	1.5
14	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	34	200	600

Interpretation of results: Nil
Deviation from test method: Nil



(Signature)
Authorized Signatory
(Venugopal Badri)
Quality manager

Note: This report is subject to the terms and conditions mentioned overleaf.

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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-02109	
Sample Description: Ground Water Sample		Lab Code No : 200839105	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 25.05.2020	Date of Receipt : 25.05.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration : 25.05.2020	Date of commencement of testing : 25.05.2020
Test Required : As given below		Date of completion of testing : 01.06.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 19.05.2020 Location of Sampling: Murgabada Village		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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 rd 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 rd Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd 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
(Venugopal Badri)
Quality manager

... End of the Report ...

Note: This report is subject to the terms and conditions mentioned overleaf.

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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deejhar Iron Ore Mines	Test Report No. : BSET/2020/TR-02110
Sample Description: Ground Water Sample	Lab Code No : 200839005
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)	Issue Date : 01.06.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle	Your Ref : Letter Dated 25.05.2020
Test Required : As given below	Date of Receipt : 25.05.2020
	Date of Registration : 25.05.2020
	Date of commencement of testing : 25.05.2020
	Date of completion of testing : 01.06.2020
	Sample condition at receipt : Found ok
	Sample tested as received
Date of Sampling: 19.05.2020 Location of Sampling: Daldir Village	Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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	6.74	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	190	200	600
6	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.08	1.0	No Relaxation
7	Chlorides as Cl	mg/l	IS:3025 -Part-32	74	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	468	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	52	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	15	30	100
11	Sulphate as SO ₄	mg/l	4500-SO ₄ L, Turbidity Method, APHA 23 rd Edition 2017	24	200	400
12	Nitrate as NO ₃	mg/l	4500-NO ₃ B Ultraviolet Spectrophotometric Screening Method	13	45	No Relaxation
13	Fluoride as F ⁻	mg/l	4500-F D, APHA 23 rd Edition 2017	0.54	1	1.5
14	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	218	200	600

Interpretation of results: Nil
Deviation from test method: Nil



(Signature)
Authorized Signatory
(Venugopal Badri)
Quality manager

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TEST REPORT

BSET/TR/FORM-56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-02110	
Sample Description: Ground Water Sample		Lab Code No : 200839005	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 25.05.2020	Date of Receipt : 25.05.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration	25.05.2020
Test Required : As given below		Date of commencement of testing	25.05.2020
		Date of completion of testing	01.06.2020
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 19.05.2020 Location of Sampling: Daldir Village		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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 rd 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 rd Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of AOPHA 23 rd 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
(Venugopal Badri)
Quality manager

*** End of the Report ***

Note: This report is subject to the terms and conditions mentioned overleaf.

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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-02111	
Sample Description: Ground Water Sample		Lab Code No : 200838905	Issue Date : 01.06.2020
		Your Ref : Letter Dated 25.05.2020	Date of Receipt : 25.05.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology) Packing : Plastic Bottles & Pre-Sterilized Bottle Test Required : As given below	Date of Registration		25.05.2020
	Date of commencement of testing		25.05.2020
	Date of completion of testing		01.06.2020
	Sample condition at receipt		Found ok
	Sample tested as received		
Date of Sampling: 19.05.2020 Location of Sampling: Deojhar Village		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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	6.73	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	180	200	600
6	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.11	1.0	No Relaxation
7	Chlorides as Cl	mg/l	IS:3025 -Part-32	38	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	364	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	40	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	19	30	100
11	Sulphate as SO ₄	mg/l	4500-SO ₄ E, Turbidity Method, APHA 23 rd Edition 2017	21	200	400
12	Nitrate as NO ₃	mg/l	4500-NO ₃ B Ultraviolet Spectrophotometric Screening Method	13	45	No Relaxation
13	Fluoride as F	mg/l	4500-F D, APHA 23 rd Edition 2017	0.40	1	1.5
14	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	194	200	600

Interpretation of results: Nil
Deviation from test method: Nil




Authorized Signatory
(Venugopal Badri)
Quality manager

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TEST REPORT

BSET/TR/FORM-56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojarh Iron Ore Mines		Test Report No. : BSET/2020/TR-02111	
Sample Description: Ground Water Sample		Lab Code No : 200838905	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Date of Registration	25.05.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of commencement of testing	25.05.2020
Test Required : As given below		Date of completion of testing	01.06.2020
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 19.05.2020		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Deojarh Village		General Environment conditions: 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 rd 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 rd Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd 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
(Venugopal Badri)
Quality manager

... End of the Report ...

Note: This report is subject to the terms and conditions mentioned overleaf.

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TEST REPORT

BSET/TR/FORM -56


Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines	Test Report No. : BSET/2020/TR-02112
Sample Description: Ground Water Sample	Lab Code No : 200838805
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)	Issue Date : 01.06.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle	Your Ref : Letter Dated 25.05.2020
Test Required : As given below	Date of Receipt : 25.05.2020
	Date of Registration : 25.05.2020
	Date of commencement of testing : 25.05.2020
	Date of completion of testing : 01.06.2020
	Sample condition at receipt : Found ok
	Sample tested as received
Sampling Details	
Date of Sampling: 19.05.2020	Sampling Method/Procedure: IS 3025 Part 1
Location of Sampling: Bileipada Village	General Environment conditions: 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	6.69	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	224	200	600
6	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.13	1.0	No Relaxation
7	Chlorides as Cl	mg/l	IS:3025 -Part-32	72	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	428	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	60	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	18	30	100
11	Sulphate as SO ₄	mg/l	4500-SO ₄ E, Turbidity Method, APHA 23 rd Edition 2017	54	200	400
12	Nitrate as NO ₃	mg/l	4500-NO ₃ B Ultraviolet Spectrophotometric Screening Method	32	45	No Relaxation
13	Fluoride as F ⁻	mg/l	4500-F D, APHA 23 rd Edition 2017	0.49	1	1.5
14	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	146	200	600

Interpretation of results: Nil
Deviation from test method: Nil




Authorized Signatory
(Venugopal Badri)
Quality manager

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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deejhar Iron Ore Mines		Test Report No. : BSET/2020/TR-02112	
Sample Description: Ground Water Sample		Lab Code No : 200838805	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 25.05.2020	Date of Receipt : 25.05.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration	25.05.2020
Test Required : As given below		Date of commencement of testing	25.05.2020
		Date of completion of testing	01.06.2020
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 19.05.2020		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Bileipada Village		General Environment conditions: 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 rd 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 rd Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of AOPHA 23 rd 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
(Venugopal Badri)
Quality manager

--- End of the Report ---

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Complaints Register is available at Laboratory

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CIN No. : U74210TG1999PTC032358

DEOJHAR MINES

GROUND WATER QUALITY REPORT

SEPTEMBER-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Taruni Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-05095	
Sample Description: Ground Water Sample		Lab Code No : 200540509	Issue Date : 19.09.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 07.09.2020	Date of Receipt : 07.09.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration : 07.09.2020	Date of commencement of testing : 08.09.2020
Test Required : As given below		Date of completion of testing : 18.09.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 03.09.2020		Sampling Details	
Location of Sampling: Murgabeda Village		Sampling Method/Procedure: IS 3025 Part I	
		General Environment conditions: 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	6.95	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	60	200	600
6	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.08	1.0	No Relaxation
7	Chlorides as Cl	mg/l	IS:3025 -Part-32	30	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	135	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	18	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	3.6	30	100
11	Sulphate as SO ₄	mg/l	4500-SO ₄ F, Turbidity Method, APHA 23 rd Edition 2017	15	200	400
12	Nitrate as NO ₃	mg/l	4500-NO ₃ B Ultraviolet Spectrophotometric Screening Method	8.1	45	No Relaxation
13	Fluoride as F	mg/l	4500-F D, APHA 23 rd Edition 2017	0.26	1	1.5
14	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	40	200	600

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


 Authorized Signatory
 (G. Chandra Mouk)
 Environmental Scientist

Note: This report is subject to the terms and conditions mentioned overleaf.

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TEST REPORT

DSBT/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-05095 Lab Code No : 200540509 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020 Date of Receipt : 07.09.2020	
Sample Description: Ground Water Sample		Date of Registration : 07.09.2020 Date of commencement of testing : 08.09.2020 Date of completion of testing : 18.09.2020 Sample condition at receipt : Found ok Sample tested as received	
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Packing : Plastic Bottles & Pre-Sterilized Bottle Test Required : As given below	
Date of Sampling: 03.09.2020 Location of Sampling: Murgaboda Village		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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 rd 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 rd Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd 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. Chandrabhathi)
 Environmental Scientist


*** End of the Report ***

Note: This report is subject to the terms and conditions mentioned overleaf.
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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-05096	
Sample Description: Ground Water Sample		Lab Code No : 200540409	Issue Date : 19.09.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 07.09.2020	Date of Receipt : 07.09.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration : 07.09.2020	Date of commencement of testing : 08.09.2020
Test Required : As given below		Date of completion of testing : 18.09.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 03.09.2020 Location of Sampling: Daldir Village		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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	6.83	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	200	200	600
6	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.07	1.0	No Relaxation
7	Chlorides as Cl	mg/l	IS:3025 -Part-32	79	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	495	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	54	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	16	30	100
11	Sulphate as SO ₄	mg/l	4500-SO ₄ L, Turbidity Method, APHA 23 rd Edition 2017	29	200	400
12	Nitrate as NO ₃	mg/l	4500-NO ₃ B Ultraviolet Spectrophotometric Screening Method	14	45	No Relaxation
13	Fluoride as F	mg/l	4500-P D, APHA 23 rd Edition 2017	0.55	1	1.5
14	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	225	200	600

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


Authorized Signatory
(G.Chandra Mouli)
Environmental Scientist



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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-05096	
Sample Description: Ground Water Sample		Lab Code No : 200540409	Issue Date : 19.09.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Date of Registration : 07.09.2020	Your Ref : Letter Dated 07.09.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of commencement of testing : 08.09.2020	Date of Receipt : 07.09.2020
Test Required : As given below		Date of completion of testing : 18.09.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 03.09.2020 Location of Sampling: Daldir Village		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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 rd Edition 2017	< 0.10	0.5	1
16	Aluminium as Al	mg/l	3500 Al B - Erochromic Cyanine R method	< 0.02	0.03	0.2
17	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd 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 ...

Note: This report is subject to the terms and conditions mentioned overleaf.
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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojar Iron Ore Mines		Test Report No. : BSET/2020/TR-05097	
Sample Description: Ground Water Sample		Lab Code No : 200540309	Issue Date : 19.09.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		Date of Receipt : 07.09.2020	Date of Registration : 07.09.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of commencement of testing : 08.09.2020	Date of completion of testing : 18.09.2020
Test Required : As given below		Sample condition at receipt : Found ok	Sample tested as received
Date of Sampling: 03.09.2020 Location of Sampling: Deojar Village		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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	6.81	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	<1	1	5
5	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	170	200	600
6	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.13	1.0	No Relaxation
7	Chlorides as Cl	mg/l	IS:3025 -Part-32	40	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	364	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	36	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	19	30	100
11	Sulphate as SO ₄	mg/l	4500-SO ₄ E, Turbidity Method, APHA 23 rd Edition 2017	25	200	400
12	Nitrate as NO ₃	mg/l	4500-NO ₃ B Ultraviolet Spectrophotometric Screening Method	12	45	No Relaxation
13	Fluoride as F ⁻	mg/l	4500-F D, APHA 23 rd Edition 2017	0.40	1	1.5
14	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	200	200	600

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

Authorized Signatory
(G.Chandra Mouli)
Environmental Scientist



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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojar Iron Ore Mines		Test Report No. : BSET/2020/TR-05097	
		Lab Code No : 200540309	
		Issue Date : 19.09.2020	
		Your Ref : Letter Dated 07.09.2020	
Sample Description: Ground Water Sample		Date of Receipt : 07.09.2020	
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)	Packing : Plastic Bottles & Pre-Sterilized Bottle	Date of Registration	07.09.2020
		Date of commencement of testing	08.09.2020
Test Required : As given below		Date of completion of testing	18.09.2020
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 03.09.2020		Sampling Details	
Location of Sampling: Deojar Village		Sampling Method/Procedure: IS 3025 Part 1	
		General Environment conditions: 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 rd 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 rd Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd 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 Mohan)
Environmental Scientist



... End of the Report ...

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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-05098	
Sample Description: Ground Water Sample		Lab Code No : 200540209	Issue Date : 19.09.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 07.09.2020	Date of Receipt : 07.09.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration : 07.09.2020	Date of commencement of testing : 08.09.2020
Test Required : As given below		Date of completion of testing : 18.09.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 03.09.2020 Location of Sampling: Bilecipada Village		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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 ₃	mg/l	IS:3025 -Part-21	215	200	600
6	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.15	1.0	No Relaxation
7	Chlorides as Cl	mg/l	IS:3025 -Part-32	78	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	428	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	58	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	17	30	100
11	Sulphate as SO ₄	mg/l	4500-SO ₄ F, Turbidity Method, APHA 23 rd Edition 2017	51	200	400
12	Nitrate as NO ₃	mg/l	4500-NO ₃ B Ultraviolet Spectrophotometric Screening Method	30	45	No Relaxation
13	Fluoride as F	mg/l	4500-F D, APHA 23 rd Edition 2017	0.49	1	1.5
14	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	150	200	600

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

Authorized Signatory
(G.Chandrababu)
Environmental Scientist



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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-05098	
Sample Description: Ground Water Sample		Lab Code No : 200540209	Issue Date : 19.09.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 07.09.2020	Date of Receipt : 07.09.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration : 07.09.2020	Date of commencement of testing : 08.09.2020
Test Required : As given below		Date of completion of testing : 18.09.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 03.09.2020 Location of Sampling: Bileipada Village		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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 rd Edition 2017	< 0.10	0.5	1
16	Aluminium as Al	mg/l	3500 Al B - Eronchrome Cyanine R method	< 0.02	0.03	0.2
17	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd 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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CIN No. : U74210TG1999PTC032358

DEOJHAR MINES

SURFACE WATER QUALITY REPORT

MAY-2020



B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

BSET/TR/FORM -56

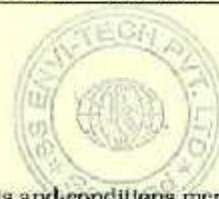
Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-02113	
Sample Description: Surface Water Sample		Lab Code No : 200838705	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		Date of Registration	25.05.2020
Parking : Plastic Bottles & Pre-Sterilized Bottle		Date of commencement of testing	25.05.2020
Test Required : As given below		Date of completion of testing	01.06.2020
		Sample conditions at receipt	Found ok
		Sample tested as received	
Sampling Details			
Date of Sampling: 19.05.2020		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Suna river Upstream		General Environment conditions: 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	6.68	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	72	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	180	3100
5.	BOD for 3days at 27°C.	mg/l	IS:3025 Part-44	11	30
6.	COD	mg/l	IS:3025 - Part-58	72	250
7.	Chloride as Cl ₁	mg/l	IS:3025 -Part-32	24	1000
8.	Phosphate as P	mg/l	4500 P, E, APHA 23 rd Edition 2017	< 0.10	5.0
9.	Sulphide as S ²⁻	mg/l	4500 S ²⁻ , D APHA 23 rd Edition 2017	< 0.10	2.0
10.	Sulphates as SO ₄	mg/l	4500-SO ₄ E, Turbidity Method, 21 st Edition 2017	18	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	30	-
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 rd Edition 2017	0.28	3
15.	Fluoride as F	mg/l	4500-F D, APHA 21 st Edition 2017	0.35	2.0

Interpretation of results: Nil

Deviation from test method: Nil



[Signature]
Authorized Signatory
(Venugopal Badri)
Quality Manager

Note: This report is subject to the terms and conditions mentioned overleaf.

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B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

BSET/TR/FORM 56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSH17/2020/WR-02113	
Sample Description: Surface Water Sample		Lab Code No : 200838705	
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Issue Date : 01.06.2020	
Packing : Plastic Bottles & Pre-Sterilized Bottle		Your Ref : Letter Dated 25.05.2020	
Test Required : As given below		Date of Receipt : 25.05.2020	
		Date of Registration	25.05.2020
		Date of commencement of testing	25.05.2020
		Date of completion of testing	01.06.2020
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 19.05.2020		Sampling Method/Procedure: IS 3025 Part I	
Location of Sampling: Sona river Upstream		General Environment conditions: 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 rd Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	42.5	-
18.	Residual Sodium Carbonate	mg/l	BSRT/SOP/W & WW-25	21	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.001	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 rd Edition 2017	240	-

Interpretation of results: Nil
Deviation from test method: Nil



(Signature)
Authorized Signatory
(Venugopal Redri)
Quality Manager

*** End of the Report ***

Note: This report is subject to the terms and conditions mentioned overleaf.

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B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-02114	
Sample Description: Surface Water Sample		Lab Code No : 200838605	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 25.05.2020	Date of Receipt : 25.05.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration : 25.05.2020	Date of commencement of testing : 25.05.2020
Test Required : As given below		Date of completion of testing : 01.06.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 19.05.2020		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Suna river Downstream		General Environment conditions: 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-1	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	86	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025-Part-16	204	2100
5.	BOD for 3 days at 27°C,	mg/l	IS:3025-Part-44	16	30
6.	COD	mg/l	IS:3025-Part-58	84	250
7.	Chloride as Cl ₂	mg/l	IS:3025-Part-32	36	1000
8.	Phosphate as P	mg/l	4500 P, E APHA 23 rd Edition 2017	< 0.10	5.0
9.	Sulphide as S ²⁻	mg/l	4500 S ²⁻ , D APHA 23 rd Edition 2017	< 0.10	2.0
10.	Sulphates as SO ₄	mg/l	4500-SO ₄ , E, Turbidity Method, 23 rd Edition 2017	22	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025-Part-18	40	-
12.	Colour	Hazen Units	IS:3025-Part-4	10	Not to have Colour and Unpleasant Odour
13.	Odour	---	IS:3025-Part-5	Agreeable	
14.	Iron as Fe	mg/l	3111 R of APHA 23 rd Edition 2017	0.33	3
15.	Fluoride as F ⁻	mg/l	4500-F ⁻ , D, APHA 23 rd Edition 2017	0.39	2.0

Interpretation of results: Nil
Deviation from test method: Nil



(Signature)
Authorized Signatory
(Venugopal Radri)
Quality Manager

Note: This report is subject to the terms and conditions mentioned overleaf.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojar Iron Ore Mines		Test Report No. : BSET/2020/TR-02114	
Sample Description: Surface Water Sample		Lab Code No : 200838605	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 25.05.2020	Date of Receipt : 25.05.2020
Packing : Plastic Bottles & Pre Sterilized Bottle		Date of Registration : 25.05.2020	Date of commencement of testing : 25.05.2020
Test Required : As given below		Date of completion of testing : 01.06.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 19.05.2020 Location of Sampling: Suna river Downstream		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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 432(E)-1993
16.	Boron as B	mg/l	4500 B, 14 APHA 23 rd Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	45.2	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	11	-
19.	Copper as Cu	mg/l	3111 D of APHA 23 rd Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 20 th Edition 2017	280	-

Interpretation of results: Nil
Deviation from test method: Nil




Authorized Signatory
(Venugopal Badri)
Quality Manager

... End of the Report ...

Note: This report is subject to the terms and conditions mentioned overleaf.

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B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSL172020/TR-02115	
Sample Description: Surface Water Sample		Lab Code No : 200838505	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Date of Registration : 25.05.2020	Date of commencement of testing : 25.05.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of completion of testing : 01.06.2020	Sample condition at receipt : bound ok
Test Required : As given below		Sample tested as received	
Sampling Details			
Date of Sampling: 19.05.2020		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Mahadev Nala Upstream		General Environment conditions: Ok	
			Page No: 1 of 2

TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants C.S.R 422(E)-1993
1.	pH	---	IS:3025- Part-11	6.62	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	78	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 Part-16	193	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	10	30
6.	COD	mg/l	IS:3025 - Part-58	64	250
7.	Chloride as Cl ₁ ,	mg/l	IS:3025 -Part-32	30	1000
8.	Phosphate as P	mg/l	4500 P, B APHA 23 rd Edition 2017	< 0.10	5.0
9.	Sulphide as S ²⁻	mg/l	4500 S ²⁻ , D APHA 23 rd Edition 2017	< 0.10	2.0
10.	Sulphates as SO ₄	mg/l	4500-SO ₄ P, Turbidity Method, 23 rd Edition 2017	21	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	28	-
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 rd Edition 2017	0.27	3
15.	Fluoride as F ⁻	mg/l	4500 F D, APHA 23 rd Edition 2017	0.32	2.0

Interpretation of results: Nil

Deviation from test method: Nil



[Signature]
Authorized Signatory
(Venugopal Badri)
Quality Manager

Note: This report is valid only for the tests and conditions mentioned overleaf.

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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-02115	
Sample Description: Surface Water Sample		Lab Code No : 200838505	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		Date of Registration	25.05.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of commencement of testing	25.05.2020
Test Required : As given below		Date of completion of testing	01.06.2020
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 19.05.2020		Sampling Details	
Location of Sampling: Mahadev Nala Upstream		Sampling Method/Procedure: IS 3025 Part 1	
		General Environment conditions: 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, R APHA 23 rd 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	5	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 rd Edition 2017	300	-

Interpretation of results: Nil

Deviation from test method: Nil



Venugopal Radri
Authorized Signatory
(Venugopal Radri)
Quality Manager

... End of the Report ...

Note: This report is subject to the terms and conditions mentioned overleaf.

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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojar Iron Ore Mines		Test Report No. : BSET/2020/TR-02116	
Sample Description: Surface Water Sample		Lab Code No : 200R38405	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 25.05.2020	Date of Receipt : 25.05.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration : 25.05.2020	Date of commencement of testing : 25.05.2020
Test Required : As given below		Date of completion of testing : 01.06.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 19.05.2020		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Mahadev Nala Downstream		General Environment conditions: 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)-1991
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	86	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	190	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	15	30
6.	COD	mg/l	IS:3025 - Part-58	76	250
7.	Chloride as Cl ₂ ,	mg/l	IS:3025 -Part-32	40	1000
8.	Phosphate as P	mg/l	4500 P, F, APHA 23 rd Edition 2017	< 0.10	5.0
9.	Sulphide as S ²⁻	mg/l	4500 S ²⁻ , D, APHA 23 rd Edition 2017	< 0.10	2.0
10.	Sulphates as SO ₄	mg/l	4500-SO ₄ E, Turbidity Method, 23 rd Edition 2017	27	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	34	-
12.	Colour	Hazen Units	IS:3025 -Part-4	10	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 rd Edition 2017	0.31	5
15.	Fluoride as F ⁻	mg/l	4500-F D, APHA 23 rd Edition 2017	0.35	2.0

Interpretation of results: Nil
Deviation from test method: Nil



(Signature)
Authorized Signatory
(Venugopal Badri)
Quality Manager

Note: This report is subject to the terms and conditions mentioned overleaf.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deajhar Iron Ore Mines		Test Report No. : BSET/2020/TR-02116	
Sample Description: Surface Water Sample		Lab Code No : 200838405	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 25.05.2020	Date of Receipt : 25.05.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration : 25.05.2020	Date of commencement of testing : 25.05.2020
Test Required : As given below		Date of completion of testing : 01.06.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 19.05.2020		Sampling Details	
Location of Sampling: Mahadev Nala Downstream		Sampling Method/Procedure: IS 3025 Part 1	
		General Environment conditions: 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 rd Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	44.2	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	Nil	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	2111 B of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 21 st Edition 2017	350	-

Interpretation of results: Nil

Deviation from test method: Nil

--- End of the Report ---



Rgo
Authorized Signatory
(Venugopal Badri)
Quality Manager

Note: This report is subject to the terms and conditions mentioned overleaf.

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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-02117	
Sample Description: Surface Water Sample		Lab Code No : 200838305	Issue Date : 01.06.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 25.05.2020	Date of Receipt : 25.05.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration	25.05.2020
Test Required : As given below		Date of commencement of testing	25.05.2020
		Date of completion of testing	01.06.2020
		Sample condition at receipt	Found ok.
		Sample tested as received	
Date of Sampling: 19.05.2020		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Baitarani River		General Environment conditions: 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	62	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	184	2100
5.	BOD for 5days at 27°C.	mg/l	IS:3025 - Part-44	10	30
6.	COD	mg/l	IS:3025 Part-58	68	250
7.	Chloride as Cl ₂	mg/l	IS:3025 -Part-32	24	1000
8.	Phosphate as P	mg/l	4500 P, E APHA 23 rd Edition 2017	< 0.10	5.0
9.	Sulphide as S ²⁻	mg/l	4500 S ²⁻ , D APHA 23 rd Edition 2017	< 0.10	2.0
10.	Sulphates as SO ₄	mg/l	4500-SO ₄ E ₂ Turbidity Method, 23 rd Edition 2017	16	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	24	-
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 rd Edition 2017	0.26	3
15.	Fluoride as F	mg/l	4500-F D, APHA 23 rd Edition 2017	0.29	2.0

Interpretation of results: Nil
Deviation from test method: Nil



(Signature)
Authorized Signatory
(Venugopal Badri)
Quality Manager

Note: This report is subject to the terms and conditions mentioned overleaf.



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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deajhar Iron Ore Mines		Test Report No. : BSET/2020/TR-02117 Lab Code No : 200838305 Issue Date : 01.06.2020 Your Ref : Letter Dated 25.05.2020 Date of Receipt : 25.05.2020	
Sample Description: Surface Water Sample		Date of Registration : 25.05.2020 Date of commencement of testing : 25.05.2020 Date of completion of testing : 01.06.2020 Sample condition at receipt : Found ok Sample tested as received	
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)	Packing : Plastic Bottles & Pre-Sterilized Bottle Test Required : As given below	Sampling Details Date of Sampling: 19.05.2020 Location of Sampling: Baitarani River Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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 rd Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-36	42.7	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	16	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 rd Edition 2017	300	-

Interpretation of results: Nil
 Deviation from test method: Nil



(Signature)
 Authorized Signatory
 (Venugopal Reddi)
 Quality Manager

... End of the Report ...

Note: This report is subject to the terms and conditions mentioned overleaf.

DEOJHAR MINES

SURFACE WATER QUALITY REPORT

SEPTEMBER-2020



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/WS-05134	
Sample Description: Surface Water Sample		Lab Code No : 200536609	Issue Date : 19.09.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 07.09.2020	Date of Receipt : 07.09.2020
Packing : Plastic Befflos& Pre-Sterilized Bottle		Date of Registration : 07.09.2020	Date of commencement of testing : 08.09.2020
Test Required : As given below		Date of completion of testing : 18.09.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 03.09.2020 Location of Sampling: Sims river Upstream		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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	6.69	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	72	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	170	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 Part-44	12	50
6.	COD	mg/l	IS:3025 - Part-58	72	250
7.	Chloride as Cl ₂	mg/l	IS:3025 -Part-32	19	1000
8.	Phosphate as P	mg/l	4500 P, B APHA 23 rd Edition 2017	< 0.10	5.0
9.	Sulphide as S ²⁻	mg/l	<500 S ²⁻ , D APHA 23 rd Edition 2017	< 0.10	2.0
10.	Sulphates as SO ₄	mg/l	4500-SO ₄ , B, Turbidity Method, 23 rd Edition 2017	15	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	23	-
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	5111 B of APHA 23 rd Edition 2017	0.24	3
15.	Fluoride as F	mg/l	4500-F D, APHA 23 rd Edition 20-7	0.31	2.0

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


Authorized Signatory
(G. Chandu Moul)
Environmental Scientist

Note: This report is subject to the terms and conditions mentioned overleaf.
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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojar Iron Ore Mines		Test Report No. : BSET/2020/W5-05134	
Sample Description: Surface Water Sample		Lab Code No : 200536609	Issue Date : 19.09.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 07.09.2020	Date of Receipt : 07.09.2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration : 07.09.2020	Date of commencement of testing : 08.09.2020
Test Required : As given below		Date of completion of testing : 18.09.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 01.09.2020		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Sina river Upstream		General Environmental conditions: 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	<500 B, P APHA 23 rd Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	41.1	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	21	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 D of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 D of APHA 23 rd Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 rd Edition 2017	240	-

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

→ End of the Report →

Authorized Signatory
(G. Chandra Mohali)
Environmental Scientist



Note: This report is subject to the terms and conditions mentioned overleaf.
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TEST REPORT

BSET/IR/FORM-58

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/WS-05135 Lab Code No : 200536509 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020 Date of Receipt : 07.09.2020	
Sample Description: Surface Water Sample		Date of Registration : 07.09.2020 Date of commencement of testing : 08.09.2020 Date of completion of testing : 8.09.2020 Sample condition at receipt : Found ok Sample tested as received	
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)	Packing : Plastic Bottles & Pre-Sterilized Bottle Test Required : As given below	Sampling Details Date of Sampling: 03.09.2020 Location of Sampling: Soma river Downstream Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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 423(E)-1993
1.	pH	---	IS:3025- Part 11	6.78	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	89	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	205	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	18	30
6.	COD	mg/l	IS:3025 - Part-58	108	250
7.	Chloride as Cl ₁	mg/l	IS:3025 -Part-32	24	1000
8.	Phosphate as P ³	mg/l	4500 P, E APHA 23 rd Edition 2017	< 0.10	5.0
9.	Sulphide as S ²⁻	mg/l	4500 S ²⁻ , D APHA 23 rd Edition 2017	< 0.10	2.0
10.	Sulphate as SO ₄	mg/l	4500-SO ₄ E, Turbidity Method, 23 rd Edition 2017	22	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025 Part 18	37	-
12.	Colour	Hazen Units	IS:3025 -Part-4	10	Not to have Colour and Unpleasant Odour
13.	Odour	---	IS:3025 -Part-5	Agreeable	
14.	Iron as Fe	mg/l	3, 11 B of APHA 23 rd Edition 2017	0.26	5
15.	Fluoride as F ⁻	mg/l	4500-F U, APHA 23 rd Edition 2017	0.30	2.0

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

Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist



Note: This report is subject to the terms and conditions mentioned overleaf.
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TEST REPORT

BSET/TR/FORM -5G

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BS/17/2020/WS-05135 Lab Code No : 200536509 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020 Date of Receipt : 07.09.2020	
Sample Description: Surface Water Sample		Date of Registration : 07.09.2020 Date of commencement of testing : 08.09.2020 Date of completion of testing : 18.09.2020 Sample condition at receipt : Found ok Sample tested as received	
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Totals) 1 No. x 250 ml. Sample (Microbiology)			
Packing : Plastic Bottles & Pre-Sterilized Bottle Test Required : As given below			
Sampling Details			
Date of Sampling: 05.09.2020 Location of Sampling: Sana river Downstream		Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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 D, B APHA 23 rd Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSEF/SOP/W & WW-26	44.3	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	27	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5.0
23.	Calcium as Ca	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 rd Edition 2017	300	-

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


 Authorized Signatory
 (G.Chandrashekhara)
 Environmental Scientist



... End of the Report ...

Note: This report is subject to the terms and conditions mentioned overleaf.
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TEST REPORT

BSET/TR/FORM -50

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/WS 05130	
Sample Description: Surface Water Sample		Lab Code No : 200536409	Issue Date : 19.09.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Mezis) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 07.09.2020	Date of Receipt : 07.09.2020
Packing : Plastic Bottles & Pre Sterilized Bottle	Date of Registration :	07.09.2020	
Test Required : As given below	Date of commencement of testing :	08.09.2020	
	Date of completion of testing :	18.09.2020	
	Sample condition at receipt :	Found ok	
	Sample tested as received :		
Date of Sampling: 03.09.2020		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Mahadev Nala Upstream		General Environment conditions: 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	6.62	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	185	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	8	30
6.	COD	mg/l	IS:3025 - Part-53	58	250
7.	Chloride as Cl.	mg/l	IS:3025 Part-32	25	1000
8.	Phosphate as P	mg/l	4500 P, E APHA 23 rd Edition 2017	< 0.10	5.0
9.	Sulphide as S ²⁻	mg/l	4500 S ²⁻ , D APHA 23 rd Edition 2017	< 0.10	2.0
10.	Sulphates as SO ₄	mg/l	4500-SO ₄ , J, Turbidity Method, 23 rd Edition 2017	16	1000
11.	Total Volatile Suspended Solids (TVSS)	mg/l	IS:3025- Part-18	29	-
12.	Colour	Hazen Units	IS:3025 -Part-4	5	Not to have Colour and Unpleasant Odour
13.	Odour	---	IS:3025 Part 5	Agresible	
14.	Iron as Fe	mg/l	3111 B or APHA 23 rd Edition 2017	0.29	3
15.	Fluoride as F ⁻	mg/l	4500-F D, APHA 23 rd Edition 2017	0.36	2.0

Interpretation of results: 'N', Deviation from test method: 'N'

Authorized Signatory
(G.Chandra Mouli)
Environmental Scientist



Note: This report is subject to the terms and conditions mentioned overleaf.
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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/WS-05136 Lab Code No : 200536409 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020 Date of Receipt : 07.09.2020	
Sample Description: Surface Water Sample		Date of Registration : 07.09.2020 Date of commencement of testing : 08.09.2020 Date of completion of testing : 18.09.2020 Sample condition at receipt : Found ok Sample tested as received	
Quantity : 1 No. x 2.0 ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)	Packing : Plastic Bottles & Pre-Sterilized Bottle	Test Required : As given below	Sampling Details Date of Sampling: 03.09.2020 Location of Sampling: Mahadev Nala Upstream
		Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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(1)-1993
16.	Boron as B	mg/l	4500 B, B APHA 23 rd Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	42.5	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	27	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5.0
23.	Calcium as Ca	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 rd Edition 2017	170	-

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

*** End of the Report ***

Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist



Note: This report is subject to the terms and conditions mentioned hereof. Complaints Register is available at Laboratory.

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TEST REPORT

HSR/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deajhar Iron Ore Mines		Test Report No. : BSET/2020/W5-05137	
Sample Description: Surface Water Sample		Lab Code No : 200536309	Issue Date : 19/09/2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 07/09/2020	Date of Receipt : 07/09/2020
Packing : Plastic Bottles & Pre-Sterilized Bottle		Date of Registration	07/09/2020
Test Required : As given below		Date of commencement of testing	08/09/2020
		Date of completion of testing	18/09/2020
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 03/09/2020 Location of Sampling: Manadev Nala Downstream		Sampling Details Sampling Method/Procedure: IS 3025 Part: I General Environment conditions: 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	105	100
4.	Total Dissolved Solids @ 105°C, mg/l	mg/l	IS:3025 - Part-16	212	2100
5.	BOD for 3days at 27°C,	mg/l	IS:3025 - Part-44	14	30
6.	COD	mg/l	IS:3025 - Part-58	107	250
7.	Chloride as Cl	mg/l	IS:3025 -Part-32	28	1000
8.	Phosphate as P	mg/l	4500 P, E APHA 23 rd Edition 2017	< 0.10	5.0
9.	Sulphide as S ²⁻	mg/l	4500 S ²⁻ , D APHA 23 rd Edition 2017	< 0.10	2.0
10.	Sulphates as SO ₄	mg/l	4500-SO ₄ , E, Turbidity Method, 23 rd Edition 2017	21	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025- Part-18	35	-
12.	Colour	Hazen Units	IS:3025 Part: 4	10	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 rd Edition 2017	0.33	3
15.	Fluoride as F	mg/l	4500-F 12, APHA 23 rd Edition 2017	0.38	2.0

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

Authorized Signatory
(G.Chandra Mouli)
Environmental Scientist



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TEST REPORT

USEET/TR/FORM 56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deujhar Iron Ore Mines		Test Report No. : BSET/2020/WS-05133	
Sample Description: Surface Water Sample		Lab Code No : 200536309	Issue Date : 19.09.2020
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 07.09.2020	Date of Receipt : 07.09.2020
Packing : Plastic Bottles & Pre-Sterilized Boule	Test Required : As given below	Date of Registration : 07.09.2020	Date of commencement of testing : 08.09.2020
		Date of completion of testing : 18.09.2020	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling: 03.09.2020 Location of Sampling: Mahadev Nala Downstream		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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 H, B APHA 23 rd Edition, 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	45.1	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	27	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 rd Edition 2017	220	-

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

Authorized Signatory
(G.Chandra Mouli)
Environmental Scientist



*** End of the Report ***

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TEST REPORT

BSRT/TR/FORM -56

Name & Address of the Customer : M/s Tarnai Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSRT/2020/WS-05138 Lab Code No : 200536209 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020 Date of Receipt : 07.09.2020	
Sample Description: Surface Water Sample		Date of Registration : 07.09.2020 Date of commencement of testing : 08.09.2020 Date of completion of testing : 18.09.2020 Sample condition at receipt : Found ok Sample tested as received :	
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)	Packing : Plastic Bottles & Pre-sterilized Bottle Test Required : As given below	Sampling Details Date of Sampling: 03.09.2020 Location of Sampling: Baitarani River Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: 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	6.69	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	235	2100
5.	BOD for 5 days at 27°C,	mg/l	IS:3025-Part-44	19	30
6.	COD	mg/l	IS:3025-Part-58	92	250
7.	Chloride as Cl ₂	mg/l	IS:3025-Part-32	25	1000
8.	Phosphate as P	mg/l	4500 P, L APHA 23 rd Edition 2017	< 0.10	5.0
9.	Sulphide as S ²⁻	mg/l	4500 S ²⁻ , D APHA 23 rd Edition 2017	< 0.10	2.0
10.	Sulphates as SO ₄	mg/l	4500-SO ₄ E, Turbidity Method, 23 rd Edition 2017	17	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025-Part 18	19	-
12.	Colour	Haze 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 rd Edition 2017	0.24	3
15.	Fluoride as F	mg/l	4500-F D, APHA 23 rd Edition 2017	0.28	2.0

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

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TEST REPORT

BSET/TR/FORM -56

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojar Iron Ore Mines		Test Report No. : BSET/2020/WS-05138 Lab Code No : 200516209 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020 Date of Receipt : 07.09.2020	
Sample Description: Surface Water Sample		Date of Registration : 07.09.2020 Date of commencement of testing : 08.09.2020 Date of completion of testing : 18.09.2020 Sample condition at receipt : Found ok Sample tested as received :	
Quantity : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Packing : Plastic Bottles & Pre-Sterilized Bottle	
Test Required : As given below		Test Required : As given below	
Date of Sampling: 03.09.2020 Location of Sampling: Baturani River		Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok	

Page No: 2 of 2

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	General Standards for discharge of Environment pollutants C.S.R 422(E)-1993
16.	Boron as B	mg/l	4500 B, B APHA 23 rd Edition 2017	< 0.10	2.0
17.	Percent Sodium	-	BSET/SOP/W & WW-26	41.8	-
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	48	-
19.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CFU/100ml	APHA 23 rd Edition 2017	280	-

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

Authorized Signatory
 (G.Chandra Mohali)
 Environmental Scientist



... End of the Report ...

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