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 yearlyEnvironmental 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 reportin soft copy by E-mailand 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

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

Encl.

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

A/6, Commercial Estate, Civil Township, Rourkela-769004, Odisha Phone: +91-661-240-0139, 240-2227, 240-1689, Fax: +91-0661-240-2226, 2401359

Copy to:

- 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
- The Chairman, State Pollution Control Board, Orissa, A/118, Nilakantha Nagar, Unit – VIII, Bhubaneswar – 751012, E mail: paribesh1@ospcboard.ord
- 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

A. SPECIFIC CONDITIONS

SL. No.	SPECIFIC CONDITION	COMPLIANCE
1	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.	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. 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.
		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.
		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.
		The photos regarding the same has been shown as below in Photo —3 and 4 .
2	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	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

facilities etc. A report is to be submitted by the proponent to SEIAA regularly on 1st June and 1st December of each calendar year.	details are provided Table No-01 and socio-Economic Development Activities are as follows which is in practice on continual basis:
	INFRASTRUCTURE -
	 Repairing and black topping of Village Road connecting Road from Deojhar to Murgabeda being carried as & when required. Repairing of interior village roads.
	EDUCATION
	 J The school at village Murgabeda got improved by providing the teaching facility with the appointment of teachers from 2009 onwards. J We are providing teachers at Mahadevnasa, Kuldum Village primary school from 2010. J We have appointed one teacher at Sialijoda primary school in 2013. J Renovation of school building & Angnabadi compound wall, etc. J Additional School Bus provided to adjoining villages. J Additional teachers have been posted in the adjoining villages. J Distribution of Uniforms, Books, slates, pencil, etc. to the school students. J Mid-day meal is being provided at free of cost for class IX & X at Deojhar High School. J Facilitating the Independence & Republic Day functions at adjoining schools by funding the entire celebration by extending

various tournaments among school children.
HEALTH)Health-Check-upcampcovering adjoining villages andfree supply of medicines havebeen conducted.)Extending the Dispensary alongwith the ambulance facility tolocal villages with the availabilityDoctor&Staffmedicine.
 DRINKING WATER FACILITY & SANITATION 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.
 OTHER PERIPHERAL ACTIVITIES 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.
 EMPLOYMENT OPPORTUNITIES Locals from adjoining villages are engaged in various activities of mines. Besides the above Temple

		 maintenance staff comprises 3.No. of Lady Employees are from Local villages. <i>Posting of additional teachers in schools from locality.</i> <i>Development of self-help groups for villagers is under planning.</i>
3	The applicant will comply with the points concerns and issues raised by the people during public hearing on 4 th February, 2009 in accordance with the commitments made by him thereon.	We have full-filled the commitment regarding the demands raised during the public hearing and compliance are made as per the commitments i.e. Infrastructure development, Health, Sanitation, Education, etc. All the raised points are addressed and complied. The details have been attached here in Table - 2 .
4	The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.	Necessary statutory clearances/ approval/ permissions from the concerned authorities have been obtained such as: Consent to Operate from SPCB, Ground Water Permission from CGWA, Hazardous waste authorization, approved mining plan from IBM, Forest clearance from MoEF, etc. Forest Clearance from MoEF (copy attached as Annexure – 1), Consent to Operate from SPCB, Orissa vide letter No.: 2603/IND-I-CON-1373 date 14.03.2019 (copy attached as Annexure – 2), Approved Mining Scheme from IBM for the period 2019-20 to 2023-24 vide letter No.MS/FM/39-ORI/BHU/2018- 19/2501 dated. 25.01.2019 (copy attached as Annexure – 3).
5	For post environmental clearance monitoring, the applicant will submit half yearly compliance report in respect of the stipulated terms and conditions of this Environmental Clearance to the State	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 .

	Environmental Impact Assessment	
	Authority (SEIAA), Orissa on 1 st June and	
	1 st December of each calendar year.	
	The core zone should be monitored	The project has already established
	intensively with no. of stations as	AAQ monitoring station as per CTC
	prescribed by CPCB, Delhi and unit of	issued by SPCB in the core as well a
	pollutant level should be expressed as	buffer zone of the ML area. There are 2
		no. of monitoring station in core zone i.e
	methodology adopted for analysis of	Mines Office and Near Exit Gate and
	samples shall be cleared indicated.	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 ou
		every month. The summerized report o
		the AAQ is attached in Annexure - 4.
7	The proponent shall submit ground	The site specific Wildlife Conservation
	toothing baseline data on flora and fauna	Plan has been approved by PCCI
	and CSR activities already carried out	(Wildlife), Chief Wildlife Warden, Odisha
	within three months to the SEIAA, Orissa.	The project has estimated cost of Rs. 54
		Lakhs which includes cost for both buffe
		zone i.e. Rs. 41 Lakhs which is alread
		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.
		Project proponent bas appointed 4 pos
		Project proponent has appointed 4 nos
		of watchers for protection of wild
		animals with the expenditure of Rs. 3.
		Lakhs/annum. Apart from that, the
		project proponent has constructed
		check dam & check weirs to restrict th
		mixing of undesired substances i
		nearby streams & also established guard
		wall along the sides of nallas.
		The copy of the same is attached a
		Annexure — 5 (approval letter).
	No two pits shall be simultaneously	There is only one mines pit i.e. Pit No
	worked. After exhausting the first mine pit	which is still active. The project i

	7	
	and before starting mining operations in the next pit, reclamation and plantation	operating according to the above mentioned condition and following as
	works in the exhausted pit shall be	per the approved mining scheme/plan
	-	
	completed so as to ensure that	including PMCP as approved by IBM.
	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.	
9	Adequate buffer zone shall be maintained	There is only one mines pit and the
	between two consecutive mineral bearing	project has maintained the safety zone
	deposits.	of 7.5 m width around the ML boundary.
		In this regard, the project has covered
		the dumps with application of mixed
		grass seeds along the slopes to stabilize
		and also to reduce wash off in case of
		rains during monsoon.
		The project has done cumulatively 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.
		Plantation details have been given in
		table – 4.
10	Zero waste mining concept shall be	Due to the incorporation of better &
	implemented either by putting up	efficient machineries and latest
	pelletisation plant or disposal of low grade	technologies, we ensure that zero
	ores/fines to prospective buyers.	wastes will be coming out due to the
		mining activity. Steps have been
		initiated to work out in this context.
11	The following shall be implemented viz. (a)	The project has taken the following steps
	dump run off should be diverted into	a. Run off generated from Dump
		-
	settling ponds until it is clear (b) adequate	areas are being diverted to
	rain water harvesting and ground water	settling pits with proper checks
	recharging facilities should be developed	before disposal to natural water

12	in the core zone, (c) attempt should be made to achieve zero water balance. Maintenance of roads through which transportation of ores are undertaken shall be carried by the project regularly at its own cost.	 bodies. b. We have implemented the roof top rain water harvesting structures and settling pits cum harvesting structures in the mines areas towards recharge of the ground water. c. Steps have been taken to achieve zero water balance like implementation of STP (Ultra Filtration Unit) for treatment of domestic effluent and reuse of the treated water for mines dust suppression and nearby gardening purpose. 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 tarpluin 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.
		norms. The photo of the same is attached as photo # 13.
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 amentias located nearest to sources of dust generation as applicable) and records shall be submitted to the SEIAA, Orissa.	There is regular monitoring of the Fugitive dust emission. The project has taken adequate measures like dry fog system in screen plants, water sprinkling in mines haulage roads etc. towards dust suppression purposes. The project has established the monitoring of fugitive dust in the mining lease area, viz. Mines Face/Haulage Road, Crusher/Screen Plant, Loading/Unloading point. The

		analysis report of the same is attached as Annexure – 6.
14	Transportation of ore shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore /dust takes place.	The steps are being followed by proper care towards public roads to ensure that the trucks should not be overloaded during transportation: besides these trucks are being covered with tarpaulins while transportation of the iron ore. Time to time awareness program is being carried out for the operators/drivers etc. towards the same. Photo of the same is attached as 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

10	Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo- textile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.	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.
18	Trenches garland drains shall be	To arrest silt from mines run off, a number
	constructed at foot of dumps to arrest silt	of catch drains and settling cum
	from being carried to water bodies.	percolation pits have been constructed
	Adequate number of check dams shall be	with garland drains around the mines
	constructed across seasonal or perennial	dump areas. Nallah protection guard
	nallah (if any) flowing through the ML area	walls have also been constructed across
	be arrested. De-silting at regular intervals	the length of the nallah. Time to time de-
	shall be carried out.	silting is followed before each monsoon.
19	Provisions shall be made for the housing	The is no such housing being made for
17	the labours within the site with all	the labours within the lease area
	necessary infrastructure and facilities such	however the project has commonly
	as fuel for cooking, mobile toilets, mobile	created a temporary housing facility for
	STP, safe drinking water, medical health	the work force by facilitating fuel for
	care, crèche etc. the housing may be in	cooking, septic tank followed by soak
	the form of temporary structures to be	pit for domestic effluents (STP-Ultra
	removed after the completion of the	Filtration Unit), drinking water, medical
	project.	health care etc The photograph of the
		temporary housing structure along with
		STP-Ultra Filtration Unit facility has been
		shown in Photo — 11.
20	Occupational health and safety measures	Initial Medical Examination & Periodical
	for the workers including identification of	Medical Examination of the workers
	work related health hazards, training on	engaged in the project is being
	malaria dust eradication, HIV, and health	undertaken periodically for permanent
	effects on exposure to respirable mineral	and outsider employees along with the
	dust etc. shall be carried out. The	pre-medical examination of persons
	proponent shall engage a full time	employed, who are engaged in the
	qualified doctor who is trained in	process of mining & are likely exposed to
	occupational health. Periodic monitoring	dust to observe any contractions due to

		· · · · · · · · · · · ·
	for exposure to respirable mineral dust on	exposure to dust. This is being carried as
	the workers shall be conducted and	per in compliance to Mines Act 1952 &
	records maintained including health	rules 1956 and amendments there to.
	records of the workers. Awareness	The various tests include PFT, X-Ray, and
	program for workers on impact of mining	lung spirometry etc.
	on their health and precautionary	During the reporting period only 01
	measures like use of personal equipment's	number of PME has been carried out.
	etc. shall be carried out periodically.	Sample PME copy is attached as
	Review of impact of various health	Annexure#09.
	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.	
21	Shelter belt i.e. (wind break of 15m width	There are no such human
	and consisting of at least around the lease	habitation/schools etc. within the ML
	facing the human habitation,	area. However, the project has covered
	school/agricultural fields etc.) if any in the	all the sub-grade dumps with plantation
	vicinity in the safety zone/backfilled and	with native species and application of
	reclaimed areas, around voids and roads	mixed grass seeds along the slopes to
	shall be raised. Green belt development	stabilize and also to reduce wash off in
	and selection of plant species shall be as	case of rains during monsoon.
	per SPCB guidelines. Density of trees has to	A safety zone of 7.5 m width around the
	be around 2500 plants per hectare, herbs	ML boundary is being maintained.
	and shrubs shall also form a part of	The project has cumulatively done
	afforestation program besides tree	42,870 numbers of saplings in and
	plantation. Help and guidance of local	around the ML area till date with
	DFO may be sought in the matter. Details	different varieties of native species in the
		safety zone, & peripheral area of ML.
	including rehabilitation of mined out area	
	shall be submitted to the SEIAA, Orissa	
	within six months.	
22	This environmental clearance is subjected	The forest clearance has been obtained
	to forest clearance under the Forest	over an area of 34.365 ha vide MoEF
	(Conservation) Act, 1980.	letter no: F No.8- 216/1992-FC dated 31st
		March 1993. As per the present circular
		dated 01.04.2015 from MoEF, Govt. of
		India the forest clearance over 34.365
		Ha will be extended up to the
		coterminous of the extended lease
		period.

23	The mining operation shall be restricted to above ground water table and it should not intersect the groundwater table.	The Project proponent working at a depth of 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.

	and becomes self-generating compliance	
	status to be reported to the appropriate	
	authorities.	
26	The funds earmarked for the environment	The funds earmarked for environmental
	protection measures shall be judiciously	protection are being utilized for the
	utilized. Under no circumstances this funds	same.
	shall be diverted for other purposes. Year	The year wise environmental expenses
	wise expenditure for these funds should be	are shown in table No. 05 .
	reported to the SEIAA, Orissa.	
27	The above mentioned stipulated	We are abiding by the said conditions.
	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.	
	Additional Environmental Clearance	
	condition of mining projects vide. OM of	
SI. No.	MoEF&CC, F.No. 22-34/2018-IA.III dated:	Compliance Status
	16.01.2020 in respect of Deojhar Iron Ore	•
	Mines, M/s Tarini Minerals Pvt. Ltd.	
	The mining lease holders shall, after	We will abide by the condition.
	ceasing mining operations, undertake re-	At present the mining operation is going
	grassing the mining area and any other	on and the mineral is not exhausted at
	area which may have been disturbed due	all & it's also duly approved by the IBM
	to their mining activities and restore the	in Mining Plan. Therefore, after ceasing
01	land to a condition which is fit for growth of	of the mining operation or exhaust of
	fodder, flora, fauna etc.	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.
1		

TABLES

SI. 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.1 - Year Wise CSR Expenses

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

SI. 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 .	

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

	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.

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 3 – Six Monthly Compliance Submission details

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,	
03	2017 - 2018	8020	Dump, Safety zone (Gap filling) & outside	Radhachude, Sal, Chatian, Sisoo, Mango etc.	
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		

Table 5-Details of Environmental Expenses

		Cost, Rs. In Lakh
SI. 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

ANNEXURES

Annexure – 1: Forest Clearance Copy

F. No. 5-216/1992-FC Government of India try of Environment & Poresta (F.C. Division) CGO Complex, Lodhi Road New Dalhi - 110 003 Parysvi n d 10th Ma ch_ 2009 To The Principal Secretary (Foresta). Government of Orisas, Bhubancahwar Diversion of 36.42 ha of Reserved forest land (Thakurani RP) in Keoujher district for mining of iron ore by Sri Niranjan Parnaik (now M/s Tarini Minerah (P) Ltd.) -Making the forest eleurance co-ferminus with Mining Lesse period regarding. Sub Sir. I am directed to refer to your letter No. 10F (Cont)=20/07/1287 dated 17.07.2007 -n the above direct subject, wherein the Ministry of Environment & Forests has been requested to make the forent clostance co-terminus with the revised Mining Lesse 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 Lesse has been transferred by the State Government of Orissa bis also informed that the said Mining Lesse has been transferred by the State Government of Orissa Niraquan Fatualit to Mix Tarrini Minarals P. Ltd. with prior approval of the Ministry of Mires, Covernment of India. Ministry of Environment and Forests had accorded approval under Section 2 of the Forest (Concervation) Act, 1980 for diversion of 34,365 hs of forest lar-i in Keonjhar district, Orisas, for mining insis in favour of Shri Niranjan Pathulk 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 stated the period of diversion of farest Luid, earlier granted by the Ministry of Environment & Forests under the said Act, to make the forest cleararce co-terminus with the period of Mining Lease granted by the State Government of Orissa Le. upto MA/9 2014. However, it has been observed that pror permittion of the Ministry of Environment & Forests has not been obtained while transferring the lease from Sri Niranjan, Patmaik to M's Tarini Minerais P. Ltd. and, therefore, this has been unated as a violation of the Forest (Conservation) Act, 1980 and, it has been decided that the User Agency that bediable to pay Penal Compensatory Afforestation over an equal snoount of non-Forest Agancy chall perliable to pay Poual Compensatory A florestation over an equal amount of non-forest Accordingly the above approval by the Ministry of Environment & Poresta shall be subject to the following conditions The non-forset lend to the extent of 36.49 he identified for the purpose of Compensatory Afforestation that he randered and mutated in favour of the State Forest Depart followed by the nonination as Reserved Forest / Prosected Forest Penal Compensatory Afforemention shift be relied and maintxined over an equal amount of non-forest land at the project cest. For this purpose, the User Agency shall identify / make available suitable non-forest land in consultation with the Some Government. The non-forest land so identified and make available shall be transferted and mutated in the non-forest land so identified and make available shall be transferted and mutated in the non-forest land so identified and make available shall be transferted and mutated in the name of the State Forest Department and shall be desired as Reserved. 1 2 name of the State Porest Department and shall be declared as Reserved Porest / Protected Forest

12 3. é.

Annexure- 2 : Consent to Operate Copy from OSPCB



- 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

SI. No	Product	Quantity		
01.	Iron Ore	1.5 MTPA		

Details of Mineral Handling Plants /Units

01	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.

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-N Phone: 0674-23524 Tele Fax: 0674-23524

ro.bhubaneshwar@ibm.gov Plot No.149, Pokhari BHUBANESWAR-751(

Date: 25.01.2019

No. MS/FM/39-ORI/BHU/2018-19 / 2 5°

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,

To

In exercise of the power delegated to me vide Gazette Notification No. S.O. 1857 (E) dated 18.05.2016, I hereby <u>Approve</u> 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:

- 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

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 µgm/m ³					
		Range	P.M-10	P.M2.5	SO ₂	NOx	СС
	May-20	Avg.	64.00	29.25	11.14	12.18	
	Jun-20	Avg.	68.25	23.13	10.50	12.33	
Mines Site office	Jul-20	Avg.	67.63	26.13	11.48	12.33	0.2
	Aug-20	Avg.	60.38	17.50	10.86	12.39	0.5
	Sep-20	Avg.	69.63	22.00	9.64	10.81	0.2
	May-20	Avg.	63.88	28.13	10.84	12.16	
	Jun-20	Avg.	69.13	24.13	9.99	12.08	••••
Exit Gate	Jul-20	Avg.	61.88	30.88	12.48	13.55	0.6
	Aug-20	Avg.	61.00	17.75	9.35	10.44	0.5
	Sep-20	Avg.	69.25	21.75	9.38	10.63	0.3
	May-20	Avg.	67.88	26.13	10.95	12.21	
	Jun-20	Avg.	58.13	15.63	10.03	12.24	
Village Murgabeda	Jul-20	Avg.	59.88	34.50	12.78	13.74	0.5
	Aug-20	Avg.	58.13	18.13	8.58	9.78	0.5
	Sep-20	Avg.	54.75	18.00	9.78	11.00	0.2
	May-20	Avg.	66.13	23.25	10.40	11.80	
	Jun-20	Avg.	58.38	16.25	10.79	12.70	••••
Village Bileipada	Jul-20	Avg.	59.13	40.13	12.69	13.91	0.6
	Aug-20	Avg.	59.88	20.25	8.55	9.94	0.5
	Sep-20	Avg.	60.38	18.38	9.44	11.40	0.2
e above tests are carried by	/ B.S Envi. Tec		oratory & i	ts accredited	by NABL	and MoE	F&C

Annexure – 4 – Summarized AAQ Report

Annexure – 5 : Wild Life Conservation Plan Copy

WARDEN, ORISSASTH FLOOR, B.D.A. APARTMENT, PRAKRUTI BHAWAN, NILAKANTHA NAGAR, BHUBANESWAR- 751012. Memo No 1238 Dt 15.2.2010 1WL-C-FC- 524/09 То The Chief Conservator of Forests (Nodal), O/o the Principal CCF, Orissa, Bhubaneswar Approval of Site Specific Wildlife Conservation Plan for Deojhar Iron Ore Mines in Sub 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 Tanni 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 takhs Total Rs.54.00 lakhs User agency will execute activites 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 1 2 . 15 influence. Conservator of Forests (WL) Val-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. 8 709 of CF., Rourakela Circle. Conservator of Forests (WL) Memo No.1240 DL 15.2.2010 107-Copy forwarded to CF, Rourkela Circle for information & necessary action with reference to his office Memo No 2561 dt 8.7.09 Conservator) of Forests (WL) Memo No. 1241 dt. 15.2.2010 Copy forwarded to the M/s Tarini Minerals Pvt. Ltd, Bonikela, Joda. Keonjhar for information & necessary action with reference to his letter dated 22.9 09 2-2 10, alfar m.0 0 ph 1 Cforma Qu of Forests (WL) Conservato 0 1 16 1 C 14 \$ Beer & Sugar Sugar St. P. And

Monthly Average Fugitive Dust Monitoring Report				
Sampling Location	Month	Fugitive Dust Monitoring Parameters in µgm/m ³		
	May-20	Avg.	208.75	
	Jun-20	Avg.	279.88	
Mines Face/ Haulage Road	Jul-20	Avg.	201.50	
	Aug-20	Avg.	182.63	
	Sep-20	Avg.	165.50	
	May-20	Avg.	199.13	
	Jun-20	Avg.	334.63	
Crusher/Screen plant		Avg.	241.50	
	Aug-20	Avg.	185.50	
	Sep-20	Avg.	206.00	
	May-20	Avg.	187.13	
	Jun-20	Avg.	229.00	
Loading & Unloading Point	Jul-20	Avg.	159.25	
	Aug-20	Avg.	162.88	
	Sep-20	Avg.	174.50	

Annexure – 6 : Fugitive Dust Monitoring Report

		-	r Iron Ore Min								
	M/s Tarini Minerals Pvt. Ltd. Ground Water Quality Report										
			May-20								
Location Murgabeda Village Daldir Village Village Village Village											
SI. No.	Test Parameter	Units	Result								
1	Odour	•••	Agreeable	Agreeable	Agreeable	Agreeable					
2	Colour	Hazen	<5	<5	<5	<5					
3	рН	••	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	Selinium 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	Chromimum as Cr	mg/l	< 0.02	< 0.02	< 0.02	< 0.02					
26	Total Coliforms	CFU/ 100 ml	Absent	Absent	Absent	Absent					
he ah	ove tests are carried by B.	S Envi. Tech I	P. Ltd Laboratory &	its accredited h	v NABL and	MoEF&CC					

		Deojhar	Iron Ore Mine	es								
	N	1/s Tarini	Minerals Pvt.	Ltd.								
	Ground Water Quality Report											
		Se	ptember-2020)								
	Location		Murgabeda Village	Daldir Village	Deojhar Village	Bileipada Village						
SI. No.	Test Parameter Units			Result								
1	Odour		Agreeable	Agreeable	Agreeable	Agreeable						
2	Colour	Hazen	<5	<5	<5	<5						
3	рН	••	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	Selinium 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	Chromimum as Cr	mg/l	< 0.02	< 0.02	< 0.02	< 0.02						
26	Total Coliforms	CFU/ 100 ml	Absent	Absent	Absent	Absent						

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

Annexure – 8	: Surface	Water	Monitoring	Report
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	De	ojhar I	ron Ore I	Mines							
	M/s Tarini Minerals Pvt. Ltd.										
	Surface Water Quality Report										
	-		Nay-20								
	Location		Suna Nadi	Suna Nadi	Mahad ev	Mahad ev	Baitara				
Location			U/S	D/S	Nallah U/S	Nallah D/S	ni River				
SI. No.	Test Parameter Units Result										
1	рН	•••	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 SO₄	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	Agreea ble	Agreea ble	Agreea ble				
14	Ironas 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				

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

	De	ojhar I	ron Ore I	Mines							
	M/s Tarini Minerals Pvt. Ltd.										
	Surface Water Quality Report										
	-		Sep-20	<u> </u>							
	LocationSuna Nadi U/SSuna Nadi D/SMahade v Nallah U/SMahade v Nallah D/SBaitaran i River										
SI. No.	Test Parameter Units Result										
1	рН	•••	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 SO₄	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	Agreea ble	Agreea ble	Agreea ble				
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				

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
	Total Coliforms	CFU/100					
29		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

FORMO [See Rule 29 F (2) and 29 L] **Report of Medical Examination Under Rule 29 B** (To be issued in Triplicate) * 0001477 T6233 Sr. Maring CERTIFICATE NO. Certified that Sri/Smil. *employed as 10. mine, Form B No . has been examined for an initial/ periodical * The findings if the examination authority are given in the attached sheet, it is Fit FALA SHIAN LOWIN considered that Sri/Shetmati 1for by En 7 44 8 8 9 12 (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. (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. 15.1 1021 Tax Signature of the Examining Authority Dr. RATANLAL SINGH, M.B.B.S. Name and Divisionation Hard Jock Letters M.B.B.S St. RATAN d in-Occupational Heat MC 2. 165 Treaters to upational Health Trained m-Do Pres- Simon Bala 1 The MA Provene and the 4.11 guales to Place : HI-TECH DIAGNOSTIC CENTRE, JODA 7 4-25 640 Date : 3/3/2 Delete whatever not applicable Original - To be kept with Examining Authority. Pink Copy - To be handed over to Person Concernecd.

PHOTOGRAPHS



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



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



Photo-7: Safety Zone Plantation



Photo-8& 9: Settling cum water harvesting pit

Reporting Period: April-2020 to September-2020





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



Photo-13: Mineral dispatch truck with tarpaulin cover on top

ENVIRONMENT MONITORING REPORTS

Reporting Period: April-2020 to September-2020

DEOJHAR MINES

AAQ REPORT

MAY-2020



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,
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	M/s Tarini Minerals Pvt.
Sample Descr	iption: Ambie	ent Air Quality		Ltd.
Location Month				
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd	.,	

	DATE	PM10 [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [μg/m ³]	NO ₂ [µg/m ³] IS:5182 Part 6
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	
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
	Q Standards urly 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,

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



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,
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	M/s Tarini Minerals Pvt. Ltd.
Sample Descr	iption: Ambie	ent Air Quality		
Location				
Month	: May -2	2020		
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd		

S.NO	DATE	PM10 [µg/m ³]	PM _{2.6} [µg/m ³]	SO ₂ [µg/m ³]	NO2 [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
	Q Standards urly 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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Recognized by MoEF & CC, Gol: Valld 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,	
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	M/s Tarini Minerals Pvt Ltd.	
Sample Desci	iption: Ambie	ent Air Quality			
Location Month					
Month Sample Colles	: May-2 cted by: B.S.	020 Envi-Tech (P) Ltd			

	DATE	PM10 [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [μg/m ³]	NO2 [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
	9 Standards urly standard)	100 [µg/m³]	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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Recognized by MoEF & CC, Gol: Valld 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,
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	M/s Tarini Minerals Pvt
Sample Descr	iption: Ambie	ent Air Quality		Ltd.
Location	: Bileipa	ada Village		
Month	: May-2	020		
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd		-

	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO2 [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
	Q Standards urly standard)	100 [µg/m ³]	60 [μg/m ³]	80 [μg/m ⁸]	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	
Sample Received on	26.06.2020	Analysis Completed on	26.06.2020	M/s Tarini Minerals Pvt.	
Sample Descr	iption: Ambie	ent Air Quality		Ltd.	
Location	: Mincs	Office			
Month	: June -	2020			
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd		1	

S.NO	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO2 [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
	Q Standards urly 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

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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	M/s Tarini Minerals Pvt. Ltd.	
Sample Desci	iption: Ambie	ent Air Quality			
Location					
Month	: June -	2020		2	
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd	••	1	

	DATE	DATE PM ₁₀ [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
	9 Standards urly 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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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	M/s Tarini Minerals Pvt.	
Sample Desci	iption: Ambie	ent Air Quality		Lid.
Location Month				
Sample Colle	cted 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	
	9 Standards urly standard)	100 [µg/m ³]	60 [µg/m ³]	80 [μg/m ³]	80 [µg/m³]	

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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*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 -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	M/s Tarini Minerals Pvt.	
Sample Descr	iption: Ambie	ent Air Quality		Ltd.
Location	: Bileipa	ada Village		
Month	: June-2			
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd		

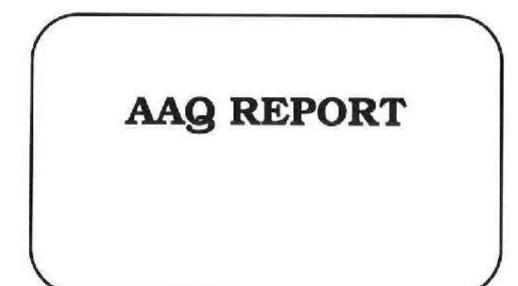
S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	
	Protocol	IS:5182 Part 23	BSET SOP AA-02	IS:5182 Part 2	IS:5182 Part 6	
1	01/06/2020	55	14	12.4	14.2	
2	04/06/2020	62	19	11.3	13.3	
3	08/06/2020	66	21	12.6	13.2	
4	11/06/2020	58	15	11.4	13.8	
5	15/06/2020	53	12	10.2	12.3	
6	18/06/2020	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	
	9 Standards urly 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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*Complaints Register is available at Laboratory.

DEOJHAR MINES



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,
Sample Received on	31.07.2020	Analysis Completed on	M/s Tarini Minerals Pvt.	
Sample Descr	iption: Ambie	ent Air Quality		Ltd.
Location Month				
and the set of the set	: July -: cted by: B.S.	Envi-Tech (P) Ltd	• =	

S.NO	DATE Protocol	PM10 [µg/m ³]	PM _{2.5} [µg/m ³] BSET SOP AA-02	SO ₂ [µg/m ³]	NO2 [µg/m ³] IS:5182 Part 6	CO [mg/m ³] BSET SOP AA-09
		Protocol IS:5182 Part 23		IS:5182 Part 2		
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
	9 Standards urly standard)	100 [µg/m ³]	60 [µg/m³]	80 [µg/m³]	80 [μg/m³]	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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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	M/s Tarini Minerals Pvt.	
Sample Descr	iption: Ambie	ent Air Quality		Lid.
Location	: Exit G	ate		
Month				
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd	.,	

S.NO	DATE	PM10 [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [μg/m ³]	NO2 [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
	Q Standards urly standard)	100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m ³] (8 hourly)

Legend: PM10-Particulate Matter (Size Less than 10µm) PM2.5-Particulate Matter (Size Less than 2.5µm) SO₂-Sulphur Dioxide NO₂- Nitrogen Dioxide

Authorized Signatory

"Complaints Register is available at Laboratory.

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



B.S. ENVI - TECH PVT. LTD. Recognized by MoEF & CC, Gol: Valld 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	M/s Tarini Minerals Pvt.	
Sample Descr	iption: Ambie	ent Air Quality		I.td.
Location Month				
Sample Colle	: July-2 cted by: B.S.	Envi-Tech (P) Ltd	••	

S.NO	DATE	PM10 [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
	Q Standards urly standard)	100 [µg/m ³]	60 [µg/m³]	80 [µg/m³]	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.

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



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	M/s Tarini Minerals Pvt.	
Sample Descr	iption: Ambie	ent Air Quality		Ltd.
Location	: Bileipa	ada Village		
Month				
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd	*1	

	DATE	DATE PM10 [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
	Q Standards urly standard)	100 [µg/m³]	60 [µg/m ³]	80 [µg/m³]	80 [µg/m³]	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.

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

DEOJHAR MINES



AUGUST-2020



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		31.08.2020	Deojhar Iron Ore Mine	
Sample Received on	31.08.2020	Analysis Completed on	31.08.2020	M/s Tarini Minerals Pvt.	
Sample Descr	iption: Ambie	ent Air Quality	<u>)</u>	Ltd.	
Location Month					
Sample Colle	: Augus cted by: B.S.	Envi-Tech (P) Ltd			

S.NO	DATE	PM10 [µg/m ³]	PM _{2.5} [µg/m ³]	5O ₂ [μg/m ³]	NO2 [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/m³]	80 [µg/m³]	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.



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.
Sample Desci	iption: Ambie	ent Air Quality		- I.td.
Location				
Month				
Sample Colle	cted 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]
F	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
	Q Standards ourly standard)	100 [µg/m³]	60 [µg/m ³]	80 [µg/m³]	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,



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

TEST REPORT

REPORT NO:	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 Descr	iption: Ambie	ent Air Quality		
Location Month	_			
Sample Colle	: Augus cted by: B.S.	Envi-Tech (P) Ltd		

S.NO	DATE	ΡM ₁₀ [μg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO2 [µg/m ³]	CO [mg/m ³]
Protocol	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
	Q Standards urly standard)	100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m³]	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

Mr.

Authorized Signatory

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



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

TEST REPORT

REPORT NO:	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.
Sample Descr	iption: Amble	ent Air Quality		I.td.
Location Month				
Sample Colle	: Augus cted 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]	NO2 [µg/m ³]	CO [mg/m ³]
Pro	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
	Q Standards urly standard)	100 [µg/m ³]	60 [µg/m ³]	80 [µg/m³]	80 [µg/m³]	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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4" Floor, 'AMITY VILLE', 12-13-1270/71/73, St. Ann's Road, Tarnaka, Secunderabad - 500017, Telangana, India

DEOJHAR MINES



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	Deojhr Iron Ore Mines,		
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020	M/s Tarini Minerals Pvt.
Sample Descr	iption: Ambie	ent Air Quality		Ltd.
Location				
Month				
Sample Colleg	ted by: B.S.	Envi-Tech (P) Ltd	.,	

S.NO	DATE	PM10 [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO2 [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
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/m³]	60 [yg/m ³]	80 [µg/m ³]	80 [µg/m³]	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

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"Complaints Register is available at Laboratory.



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date			Deojhar Iron Ore Mines	
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020	M/s Tarini Minerals Pvt.
Sample Descr	iption: Ambie	ent Air Quality		Ltd.
Location				
Month				
Sample Colle	eted by: B.S.	Envi-Tech (P) Ltd		

S.NO	DATE	PM10 [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [μg/m ³]	NO2 [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
	Q Standards urly standard)	100 [µg/m³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m³]	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

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*Complaints Register is available at Laboratory.

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



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,
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020	M/s Tarini Minerals Pvt. I.td.
Sample Desci	iption: Ambie	ent Air Quality		
Location Month		abeda Village nbcr-2020		
Sample Colle	the second se	Envi-Tech (P) Ltd	.,	

S.NO	DATE	PM10 [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO2 [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	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
	Q Standards urly standard)	100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m³]	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 Signator Q-103

"Complaints Register is available at Laboratory,



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

		TEST REP	ORT	
REPORT NO:	DIOM / TM //	ENV/2020/AAQ	Issued to:	
Reporting Date	26.09.2020	Analysis Starting on	26.09.2020) Deojhar Iron Ore Mines,
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020	
Sample Descr	iption: Ambie	ent Air Quality		M/s Tarini Minerals Pvt. Ltd.
Location Month		ada Village nber-2020		
Sample Colle		Envi-Tech (P) Ltd	.,	

S.NO	DATE	PM10 [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO2 [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	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
C 1000 C 11 PC C C R C C C C C C C C C C C C C C C	Q Standards urly standard)	100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	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

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"Complaints Register is available at Laboratory.

DEOJHAR MINES

FUGITIVE DUST MONITORING REPORT

MAY-2020



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

TEST REPORT

REPORT NO:	EPORT NO: DIOM / TM /ENV/2020/AAQ/2020 -05			
Reporting Date	29.05.2020	Analysis Starting on	29.05.2020	Deojhar Iron Ore Mines,
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	M/s Tarini Minerals Pvt. Ltd.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	
Location Month	: Mines : May -2	Face/Haulage Re 2020	oad	
Sample Colle		Envi-Tech (P) Ltd	-1	

S.NO	DATE	SPM [µg/m ³]	STANDARD AS PER CFO
1	04/05/2020	253	
2	07/05/2020	149	1200
3	11/05/2020	266	
4	14/05/2020	158	
5	18/05/2020	250	- [µg/m³]
6	21/05/2020	171	
7	25/05/2020	269	
8	28/05/2020	154	

Legend: SPM-Suspended Particulate Matter

Authorized Signatory



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



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

TEST REPORT

REPORT NO:	EPORT NO: DIOM / TM /ENV/2020/AAQ/2020 -05			
Reporting Date	29.05.2020	Analysis Starting on	29.05.2020	Deojhar Iron Ore Mines,
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	M/s Tarini Minerals Pvt. Ltd.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	
Location	: Crush	cr Plant	0.55	
Month	: May -2	2020		
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd	.,]

S.NO	DATE	SPM [µg/m ³]	STANDARD AS PER CFO
1	04/05/2020	212	
2	07/05/2020	191	1200
3	11/05/2020	177	
4	14/05/2020	189	
5	18/05/2020	206	[µg/m³]
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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4[°] Floor, 'AMITY VILLE', 12-13-1270/71/73. St. Ann's Road, Tamaka, Secunderabad - 500017, Telangana, India



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,
Sample Received on	29.05.2020	Analysis Completed on	29.05.2020	M/s Tarini Minerals Pvt. Ltd.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	
Location Month	: Loadir : May -2	ng/Unloading Poi 2020	nt	
Sample Colle	the second s	Envi-Tech (P) Ltd		

STANDARD AS PER	SPM [µg/m ⁹]	DATE	S.NO
	160	04/05/2020	1
1200 [µg/m³]	193	07/05/2020	2
	167	11/05/2020	3
	221	14/05/2020	4
	185	18/05/2020	5
	162	21/05/2020	6
-	199	25/05/2020	7
	210	28/05/2020	8

Legend: SPM-Suspended Particulate Matter

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

DEOJHAR MINES

FUGITIVE DUST MONITORING REPORT

JUNE-2020



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	M/s Tarini Minerals Pvt.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	Lul.
Location	: Mines	Face/Haulage Re	oad	
Month	: June -	2020		
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd	.,	

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

Legend: SPM-Suspended Particulate Matter

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"Complaints Register is available at Laboratory.



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 Descr	iption: Fugiti	ve Dust Monitori	ng	M/s Tarini Minerals Pvt.
Location	: Crush	er Plant	(SATI)	Ltd.
Month	: June -	2020		
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd		

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

Legend: SPM-Suspended Particulate Matter

ECA Authorized Signatory

"Complaints Register Is available at Laboratory.



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	M/s Tarini Minerals Pvt.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	Ltd
Location	: Loadir	ng/Unloading Poi	nt	
Month	: June -	2020		
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd	.,	

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

Legend: SPM-Suspended Particulate Matter

Authorized Signator

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

DEOJHAR MINES

FUGITIVE DUST MONITORING REPORT

JULY-2020



TEST REPORT

REPORT NO:	DIOM / TM /	ENV/2020/AAQ	/2020 -07	Issued to:
Reporting Date	31.07.2020		31.07.2020	Deojhar Iron Ore Mines,
Sample Received on	31.07.2020	Analysis Completed on	31.07.2020	M/s Tarini Minerals Pvt.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	Ltd.
Location Month	: Mines : July -2	Face/Haulage Ro 2020	bad	
Sample Colle	and the second se	Envi-Tech (P) Ltd		

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

Legend: SPM-Suspended Particulate Matter

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*Complaints Register is available at Laboratory.

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



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	M/s Tarini Minerals Pvt.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	Ltd.
Location	; Crush	er Plant		
Month	: July -2	2020		
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd	.,	

S.NO	DATE	SPM [µg/m ³]	STANDARD AS PER CFO
1	06/07/2020	285	
2	09/07/2020	267	
3	13/07/2020	242	
4	16/07/2020	232	1200
5	20/07/2020	226	[µg/m ³]
6	23/07/2020	259	
7	27/07/2020	216	
8	30/07/2020	208	

Legend: SPM-Suspended Particulate Matter

Authorized Signatory

"Complaints Register is available at Laboratory.

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



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 Desci	iption: Fugiti	ve Dust Monitori	ng	M/s Tarini Minerals Pvt.
Location Month	: Loadir : July -	ng/Unloading Poi 2020	nt	Ltd.
Sample Colle		Envi-Tech (P) Ltd	.,	

S.NO	DATE	SPM [µg/m ³]	STANDARD AS PER CFO
1	06/07/2020	162	
2	09/07/2020	175	
3	13/07/2020	196	
4	16/07/2020	142	1200
5	20/07/2020	135	[µg/m ³]
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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4[°] Floor, 'AMITY VILLE', 12-13-1270/71/73, St. Ann's Road, Tamaka, Secunderabad - 500017, Telangana, India

DEOJHAR MINES

FUGITIVE DUST MONITORING REPORT

AUGUST-2020



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.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	Ltd.
Location Month	: Mines : Augus	Face/Haulage Ro t -2020	oad	
Sample Colle		Envi-Tech (P) Ltd		1

S.NO	DATE	SPM [µg/m ³]	STANDARD AS PER CFO
1	03/08/2020	166	
2	06/08/2020	178	
3	10/08/2020	192	
4	13/08/2020	145	1200
5	17/08/2020	138	[µg/m³]
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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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.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	Ltd.
Location	: Crush	er Plant		
Month	: Augus	t -2020		
Sample Colle	cted by: B.S.	Envi-Tech (P) Ltd		

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

Legend: SPM-Suspended Particulate Matter

Authorized Signatory TEC

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



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 Descr	iption: Fugiti	ve Dust Monitori	ng	- LIG.
Location Month	: Loadii : Augus	ng/Unloading Poi t -2020	nt	
Sample Colle		Envi-Tech (P) Ltd		

S.NO	DATE	SPM [µg/m ³]	STANDARD AS PER CFO
1	03/08/2020	156	
2	06/08/2020	145	
3	10/08/2020	151	
4	13/08/2020	137	1200
5	17/08/2020	184	[µg/m³]
6	20/08/2020	166	
7	24/08/2020	189	
8	27/08/2020	175	

Legend: SPM-Suspended Particulate Matter

Authorized Signatory



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DEOJHAR MINES

FUGITIVE DUST MONITORING REPORT

SEPTEMBER-2020



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,
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020	M/s Tarini Minerals Pvt.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	Ltd.
Location	: Mincs	Face/Haulage Re	1997	
Month		nber -2020		
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,	

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

Legend: SPM-Suspended Particulate Matter Authorized Signa

"Complaints Register is available at Laboratory.



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,
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020	M/s Tarini Minerals Pvt.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	Lid.
Location	: Crush	er Plant		
Month	: Septer	nber -2020		
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd		1

S.NO	DATE	SPM [µg/m³]	STANDARD AS PER CFO
1	03/09/2020	214	
2	07/09/2020	208	-
3	10/09/2020	224	7
4	14/09/2020	216	1200
5	17/09/2020	188	[µg/m ³]
6	21/09/2020	179	
7	24/09/2020	216	
8	28/09/2020	203	

Legend: SPM-Suspended Particulate Matter Authorized S

*Complaints Register 5 available at Laboratory,



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TEST REPORT

REPORT NO:	DIOM / TM//	ENV/2020/AAQ	/2020 -09	Issued to:
Reporting Date	26.09.2020	A state to	26.09.2020	Deojhar Iron Ore Mines,
Sample Received on	26.09.2020	Analysis Completed on	26.09.2020	M/s Tarini Minerals Pvt.
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	I.td.
Location Month		ng/Unloading Poi nber -2020	nt	
	the second s	Envi-Tech (P) Ltd		

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

Legend: SPM-Suspended Particulate Matter Authorized Signal 69.07

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DEOJHAR MINES

GROUND WATER QUALITY REPORT

MAY-2020



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

TEST REPORT

Test Report No. : BSET/2020/TR-02 Lab Code No : 200839105 Issue Date : 01.06.2020 Your Ref : Letter Dated 25.05.	
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	
	Lab Code No : 200839105 Issue Date : 01.06.2020 Your Ref : Letter Dated 25.05. Date of Receipt : 25.05.2020 Date of Registration Date of commencement of testing Date of completion of testing Sample condition at receipt.

Page No: 1 of 2

TEST RESULTS

				uirement as per § 10500:2012		
S. No.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source
1	Odour	1.537	1S:3025 -Part-5	Agreeable	Agreeable	Agreeable
2	Colour	Hazen Units	IS:3025 -Part-4	<5	5	15
3	pH	1155	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 ^{nl} Edition 2017	0.09	1,0	No Relaxation
7	Chlorides as Cl	mg/t	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	my/l	IS:3025 -Part-46	4.4	30	100
11	Sulphate as SO4	mg/l	4500-SO4 E, Turbidity Method, APHA 23 ^{el} 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 CaCO3,	mg/l	IS:3025 -Part-23	34	200	600

Interpretation of results: Nil Deviation from test method: Nil



Authorized Signatory (Venugopal Badri) Quality manager

Note: This report is subject for the terms and sonditions mentioned overleaf.

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



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TEST REPORT

Nama & Adda	ess of the Customer :		TR/FORM -56	
		Test Report No. : BSET/2020/TR-02	109	
M/s Tarini M Deojhar Iron	inerals Pvt. Ltd. Ore Mines	Lab Code No : 200839105 Issue Date : 01.06.2020		
		Your Ref : Letter Dated 25.05.2020		
Sample Descri	ption: Ground Water Sample	Date of Receipt : 25.05.2020		
Quantity	: I No. x 2.0 Ltrs Sample	Date of Registration	25.05.2020	
	 No. x 500 ml Sample(Metals) No x 250 ml Sample (Microbiology) 	Date of commencement of testing	25.05.2020	
Packing	: Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	01.06.2020	
Test Required	: As given below	Sample condition at receipt	Found ok	
The second second		Sample tested as received		
		ing Details	esenter/	
	ng: 19.05.2020 mpling: Murgabeda Village	Sampling Method/Procedure: IS 3025 F General Environment conditions: Ok	art I	
	mbund unstances and	Sere a same same to hardony. Or	Page No: 2 of	

TEST RESULTS

				Requirement as per IS 10500:2012		
S. No.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source
15	Boron as B	mg/l	4500-B B. Curcumin Method, APHA 23 ^{r6} Edition 2017	< 0.10	0.5	1
16	Aluminium as Al	mg/l	3500 AI 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 ^{td} Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Za	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 Arsonic as As	mg/l	3114 C of APHA 23 st Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of A0PHA 23 nd Edition 2017	< 0.02	0.05	No Relaxation
26	Total Coliforms	CFU/100ml	IS: 1622 - 1981	Absent		1

Interpretation of results: Nil Deviation from test method: Nil



... End of the Report...

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

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



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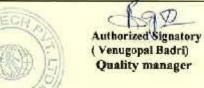
TEST REPORT

and the second	ess of the Customer : nerals Pvt. Ltd. Ore Mines	Test Report No. : BSET/2020/TR-02 Lab Code No : 200839005 Issue Date : 01.06.2020 Your Ref : Letter Dated 25.05	
Sample Descri	ption: Ground Water Sample	Date of Receipt : 25.05.2020	
Quantity	: 1 No. x 2.0 Ltrs Sample	Date of Registration	25.05.2020
	l No. x 500 ml Sample(Metals) l No x 250 ml Sample (Microbiology)	Date of commencement of testing	25.05.2020
Packing	: Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	01.06.2020
	: As given below	Sample condition at receipt	Found ok
	The Brief of the	Sample tested as received	
Date of Sampli Location of Sam		ing Details Sampling Method/Procedure: IS 3025 P General Environment conditions: Ok	Part 1 Page No: 1 of

TEST RESULTS

0						ement as per 0500:2012
S. No.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source
1	Odour	-	IS:3025 -Part-5	Agreeable	Agrecable	Agreeable
2	Colour	Hazen Unita	18:3025 -Part-4	<5	5	15
3	pH	-	IS:3025-Part-U	6.74	6.5-8.5	No Relaxation
4	Turbidity	NTU	15:3025 -Part-10	<1	4	S
5	Total Hardness as CaCO ₃	mg/l	IS:3025 -Pan-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 SO4	mg/l	4500-SO ₄ E, Turbidity Method, APHA 23 rd Edition 2017	24	200	400
12	Nitrate as NO ₃	mg/l	4500-NO ₂ B Ultraviolet Spectruphotometric 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 CaCO3,	mg/l	IS:3025 -Part-23	218	200	600

Interpretation of results: Nil Deviation from test method: Nil



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Note: This report to subject to the lorge and cood then mentioned overleaf.

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



Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd.

B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

	BSET/TR/FORM-56
Test Report No	.: BSE1/2020/TR-02110
Lab Code No	: 200839005

Deojhar Iron Ore Mines		Lab Code No : 200839005		
		Issue Date : 01.06.2020 Your Ref : Letter Dated 25.05.	2020	
Sample Descrip	ption: Ground Water Sample	Date of Receipt : 25.05.2020		
Quantity	: 1 No. x 2.0 Lirs Sample	Date of Registration	25.05.2020	
	1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)	Date of commencement of testing	25.05.2020	
Packing	: Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	01.06.2020	
	: As given below	Sample condition at receipt	Found ok	
		Sample tested as received		
		ing Details		
Date of Sampli Location of San	ng: 19.05.2020 mpling: Daldir Village	Sampling Method/Procedure: IS 3025 P General Environment conditions: Ok	art 1	
			Page No: 2 of 2	

TEST RESULTS

		Test Parameter Units Test Mothod Result			Requirement as per IS 10500:2012	
S. No.	Test Parameter		Result	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 – Etoochrome 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 23rd Edition 2017	< 0.01	0.01	No Relaxation
20	Zine 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 23rd 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 A0PHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation
26	Total Coliforms	CFU/100ml	IS: 1622 - 1981	Absent		5

Interpretation of results: Nil Deviation from test method: Nil



Authorized Signatory (Venugopal Badri) Quality manager

*** End of the Report-

Note: This report icombischer Rigisler sand sond Hans mentioned overleaf.

4^{*} Floor, 'AMITY VILLE', 12-13-1270/71/73, St. Ann's Road, Tarnaka, Secunderabad - 500017, Telangana, India



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TEST REPORT

Test Report No. : BSET/2020/TR-021 Lab Code No : 200838905 Issue Date : 01.06.2020	
	2002
Your Ref : Letter Dated 25.05.2 Date of Receipt : 25.05.2020	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 Receipt : 25.05.2020 Date of Registration Date of commencement of testing Date of completion of testing Sample condition at receipt

Page No: 1 of 2

TEST RESULTS

13					De Contration de la contration	ement as per 0500;2012
S. No.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source
1	Odour		IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2	Colour	Hazen Units	18:3025 -Part-4	< 5	5	15
3	pН		IS:3025- Part-11	6.73	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	<]	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 23rd 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 SO4	mg/l	4500-SO4 E, Turbidity Method, APHA 23 rd Edition 2017	21	200	400
12	Nitrate as NO ₃	mg/1	4500-NO ₃ B Ultraviolet Spectrophotometric Screening Method	13	45	No Relaxation
13	Fluoride as F	mg/1	4500-F D, APHA 23 rd Edition 2017	0.40	1	1.5
14	Total Alkalinity as CaCO3,	mg/1	1S:3025 -Part-23	194	200	600

Interpretation of results: Nil Deviation from test method: Nil



Note: This report is aubients regeneration and southing and interest overleaf.

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



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TEST REPORT

Nama & Addre	ess of the Customer :		TR/FORM -56
M/s Tarini Mi Deojhar Iron (nerals Pvt. Ltd.	Test Report No. : BSET/2020/TR-02: Lab Code No : 200838905 Issue Date : 01.06.2020 Your Ref : Letter Dated 25.05. Date of Receipt : 25.05.2020	
Quantity	: 1 No. x 2.0 Ltrs Sample	Date of Registration	25.05.2020
	1 No. x 500 ml Sample(Metals)	Date of commencement of testing	25.05.2020
Packing	1 No x 250 ml Sample (Microbiology) 2 Plastic Bottles & Pre-Sterilized Bottle	Date of completion of testing	01.06.2020
Test Required		Sample condition at receipt	Found ok
resi Acquire	. ris given below	Sample tested as received	
Date of Sampli Location of Sa		ing Details Sampling Method/Procedure: IS 3025 F General Environment conditions: Ok	Part 1 Page No: 2 of 2

TEST RESULTS Test Parameter Units Test Method Result Requirement as per IS 10500:2012 Inits Test Method Result Permissi limits in ab of alterna

					IS 1	0500:2012
S. No.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source
15	Boron as B	mg/l	4500-B B. Curcumin Method, APIIA 23 rd Edition 2017	< 0.10	0.5	1
16	Aluminium as Al	mg/l	3500 AI B – Eroochrome Cyanine R method	< 0.02	0.03	0.2
17	Copper as Cu	mg/1	3111 B of APHA 23 ^{nl} 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 APIIA 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 A0PHA 23 ^{td} Edition 2017	< 0.02	0.05	No Relaxation
26	Total Coliforms	CFU/100ml	IS: 1622 - 1981	Absent		-

Interpretation of results: Nil Deviation from test method: Nil



--- End of the Report---

Note: This report to an head set of the series and good tions mentioned overleaf.

4" Floor, 'AMITY VILLE', 12-13-1270/71/73, St. Ann's Road, Tarnaka, Secunderabad - 500017, Telangana, India Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063 Email : lab@bsenvitech.com, Info@bsenvitech.com

Website : www.bsenvitech.com

CIN No. : U74210TG1999PTC032358



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TEST REPORT

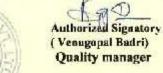
BSET/TR/FORM-56

Name & Addre	ess of the Customer :	Test Report No. : BSET/2020/TR-02	12		
M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Lah Code No : 200838805 Issue Date : 01.06.2020			
Sample Descrip	otion: Ground Water Sample	Your Ref : Letter Dated 25.05. Date of Receipt : 25.05.2020	2020		
Quantity	: 1 No. x 2.0 Ltrs Sample	Date of Registration	25.05.2020		
	1 No. x 500 ml Sample(Metals)	Date of commencement of testing	25.05.2020		
Packing	1 No x 250 ml Sample (Microbiology) : Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	01.06.2020		
	: As given below	Sample condition at receipt	Found ok		
1 mi tuqui tu		Sample tested as received			
Date of Sampli Location of Sa		ing Details Sampling Method/Procedure: IS 3025 F General Environment conditions: Ok	art I Page No: 1 of 2		

TEST RESULTS

				Requirement as per IS 10500:2012		
S. No.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source
1	Odour		15:3025 -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 Fc	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	15:3025 - Part-16	428	500	2000
9	Calcium as Ca	mg/l	15:3025- Part-40	60	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	18	30	100
u	Sulphate as SO4	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 ^{ad} Edition 2017	0.49	1	1.5
14	Total Alkalinity as CaCO3,	mg/l	IS:3025 -Part-23	146	200	600

Interpretation of results: Nil Deviation from test method: Nil



Note: This report is subject so the lenge and conditions mentioned overleaf.

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TEST REPORT

Name & Addre	ess of the Customer :	Test Report No. ; BSET/2020/TR-021	/TR/FORM -56		
M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines Sample Description: Ground Water Sample		Lab Code No : 200838805 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	Date of Registration	25.05.2020		
	1 No. x 500 ml Sample(Metals)	Bate of commencement of testing	25.05.2020		
Packing	1 No x 250 ml Sample (Microbiology) : Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	01.06.2020		
	and the first of the second	Sample condition at receipt	Found ok		
Test Required : As given below		Sample tested as received			

Location of Sampling: Bileipada Village

General Environment conditions: Ok

Page No: 2 of 2

TEST RESULTS

	Test Parameter	Units T		Result	Requirement as per IS 10500:2012	
S. No.			Test Method		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	0.3	1
16	Aluminium as Al	mg/l	3500 AJ 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/J	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Za	mg/I	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23rd 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	ing/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 A0PHA 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 to amplify the starting starting the starting of the startin

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DEOJHAR MINES

GROUND WATER QUALITY REPORT

SEPTEMBER-2020



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TEST REPORT

Name & Addes	ess of the Customer :		/TR/FORM -56			
		Test Report No. : BSET/2020/TR-05095				
M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Lab Code No : 200540509				
		Issue Date : 19.09.2020				
		Your Ref : Letter Dated 07.09.	2020			
Sample Descrip	ption: Ground Water Sample	Date of Receipt : 07.09.2020				
Quantity	: I No. x 2.0 Ltrs Sample	Date of Registration	07.09.2020			
	1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)	Date of commencement of testing	08.09.2020			
Packing	: Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	18.09.2020			
Test Required	: As given below	Sample condition at receipt	Found ok			
		Sample tested as received				
		ing Details				
Date of Sampli		Sampling Method/Procedure: IS 3025 P	art I			
Focution 61 28	mpling: Murgabeda Village	General Environment conditions: Ok	Page No: 1 of 2			

TEST RESULTS Requirement as per IS 10500:2012 S. Permissible **Test Parameter** Units Test Method Result No. Acceptable limits in absence limits of alternative source 1 Odour IS:3025 -Part-5 Agreeable Agreeable Agreeable lazen 2 Colour IS:3025 -Part-4 5 15 <5 Units pH 3 ----IS:3025- Pari-11 6.95 6.5-8.5 No Relaxation 4 Turbidity NTU 1 5 18:3025 -Part-10 <1 5 Total Hardness as CaCO₁ mg/1 200 600 IS:3025 -Part-21 60 3111 B of APHA 6 Iron as Fe mg/l 0.08 1.0 No Relaxation 23rd Edition 2017 7 Chlorides as Cl mg/l 250 1000 1S:3025 -Part-32 30 Total Dissolved Solids @ 8 2000 mg/l 18:3025 - Part-16 500 135 105°C, mg/l 9 Calcium as Ca mg/l (S:3025-Part-40 18 75 200 10 Magnesium as Mg 30 100 mg/l IS:3025 -Part-46 3.6 4500-SO4 E, Turbidity H Sulphate as SO4 mg/l Method, APHA 200 400 15 23rd Edition 2017 4500-NO3 B Ultraviolet 12 Nitrate as NO₄ mg/l Spectrophotometric. 8.1 45 No Relaxation Screening Method 4500-F D, APHA 13 Fluoride as F mg/l 0.26 1 1.5

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

mg/l

200 Authorized Signit (G.Chandra Mouli Environmental Sciencist

Note: This report is subjects to the terms and the solution of overleaf.

23rd Edition 2017

IS:3025 -Part-23

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Total Alkalinity as CaCO₁

14

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063 Email : lab@bsenvitech.com, info@bsenvitech.com Website : www.bsenvitech.com CIN No : U74210TG1999PTC032358

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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-05095 Lab Code No : 200540509 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020			
Sample Descrip	otion: Ground Water Sample	Date of Receipt : 07.09,2020			
Quantity	: 1 No. x 2.0 Ltrs Sample	Date of Registration	07.09.2020		
	I No. x 500 ml Sample(Metals) I No x 250 ml Sample (Microbiology)	Date of commencement of testing	08.09.2020		
Packing	2 Plastic Bottles& Pre-Sterilized Bottle	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 Sampli Location of Sam		ng Details Sampling Method/Procedure: TS 3025 P General Environment conditions: Ok	art I Page No: 2 of 2		
	TEST DESI	TTO			

TEST RESULTS

		Test Parameter Units Test Method Result			Requirement as per 15 10500:2012	
S. No.	Test Parameter		Result	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	ntg/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	Zine as Zn	mg/l	3111 B of APHA 23 ^{nt} Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/I	3111 C of APHA 23 nd 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 ^a Edition 2017	< 0.001	0.001	No Relaxation
24	Total Arsenic as As	mg/l	3114 C of APIIA 23" Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of A0PHA 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



---- End of the Report----

Note: This report compatible Registering and conditions incond overleat.

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TEST REPORT

		BSET	/TR/FORM-56		
Name & Address of the Costomer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-050 Lab Code No : 200540409 Issue Date : 19.09.2020	996		
Sample Descrip	ption: Ground Water Sample	Your Ref : Letter Dated 07.09 Date of Receipt : 07.09.2020	2020		
Quantity	: 1 No. x 2.0 Ltrs Sample	Date of Registration	07.09.2020		
	 I No. x 500 ml Sample(Metals) I No x 250 ml Sample (Microbiology) 	Date of commencement of testing	08.09.2020		
Packing	: Plastic Bottles& Pre-Steriltzed Bottle	Date of completion of testing	18.09.2020		
Test Required		Sample condition at receipt	Found ok		
	······	Sample tested as received			
Date of Sampli Location of Sa		ing Details Sampling Method/Procedure: 18 3025 F General Environment conditions: Ok	art 1 Page No: 1 of 2		

TEST RESULTS Requirement as per IS 10500:2012

100						
S. No.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source
1	Odour		15:3025 -Part-5	Agreeable	Agreeable	Agreeable
2	Colour	Hazen Units	IS:3025 -Part-4	<5		15
3	рН		1S:3025- Part-11	6.83	6.5-8.5	No Relaxation
4	Turhidity	NTU	IS:3025 -Part-10	<1	1	5
5	Total Hardness as CaCO ₁	mg/l	IS:3025 -Part-21	200	200	600
6	Iron as Fc	mg/l	3111 B of APHA 23 ^{td} Edition 2017	0.07	1.0	No Relaxation
7	Chlorides as Cl	mg/l	15:3025 -Part-32	79	250	1000
8	Total Dissolved Solids @ 105°C, mg/l	ing/l	15:3025 - Part-16	495	500	2000
9	Calcium as Ca	mg/l	IS:3025- Part-40	54	75	200
10	Magnesium as Mg	mµ/1	IS:3025 -Part-46	16	30	100
11	Sulphate as SO4	mg/l	4500-SO ₄ E, Turbidity Method, APHA 23 ⁻⁰ Edition 2017	29	200	400
12	Nitrote as NO ₅	mg/l	4500-NO ₃ B Ultraviolet Spectrophotometric Screening Method	14	45	No Relaxation
13	Fluoride as F	mg/l	4500-F D, APHA 23 ^{ct} Edition 2017	0.55	ŧ	1.5
14	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	225	200	600 C.C.H

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

Authorized Signatury (G.Chandra Mouli) Environmental Scientist

Note: This report comparis Registers sanaby at 1898 me, atom overleaf.

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TEST REPORT

		BSET	/TR/FORM-56		
Name & Aildr	ess of the Customer :	Test Report No. : BSET/2020/TR-050	096		
M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines Sample Description; Ground Water Sample		Lab Code No : 200540409 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020			
Sample Descrip	ption: Ground Water Sample	Date of Receipt : 07.09.2020			
Quantity	: 1 No. x 2.0 Ltrs Sample	Date of Registration	07.09.2020		
	 No. x 500 ml Sample(Metals) No x 250 ml Sample (Microbiology) 	Date of commencement of testing	08.09.2020		
Packing	: Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	18.09.2020		
Test Required		Sample condition at receipt	Found ok		
		Sample tested as received			
Date of Sampli Location of Sa		ing Details Sampling Method/Procedure: IS 3025 P General Environment conditions: Ok	art I Page No: 2 of 2		

TEST RESULTS

	Test Parameter	linits Test Method			Requirement as per IS 10500:2012	
5. No.			Result	Acceptable limits	Permissible limits in absence of alternative source	
15	Boron as B	mgʻl	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	Zine as Zn	mg/i	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 Arsonic as As	mg/ł	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
25	Total Chromium as Cr	mg/l	3111 C of A0PHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation
26	Total Coliforms	CFU/100ml	IS: 1622 1981	Absent		22

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

Authorizod Signa (G.Chandra Mou Environmental Scin

... End of the Report-...

Note: This report 46 ambigues a distance overleaf.

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TEST REPORT

			T/TR/FORM -56		
Name & Add	dress of the Customer :	Test Report No. : BSET/2020/TR-05097			
M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Lab Code No : 200540309			
		Issue Date : 19.09.2020			
		Your Ref : Letter Dated 07.09.2020			
Sample Dese	ription: Ground Water Sample	Date of Receipt : 07.09.2020			
Quantity	: 1 No. x 2.0 Ltrs Sample	Date of Registration	07.09.2020		
	 No. x 500 ml Sample(Metals) No x 250 ml Sample (Microbiology) 	Date of commencement of testing	08.09.2020		
Packing	: Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	18.09.2020		
	d : As given below	Sample condition at receipt	Found ok		
		Sample tested as received			
n., 16		ling Details	1 12		
	oling: 03.09.2020 sampling: Deojhar Village	Sampling Method/Procedure: 18 3025 F General Environment conditions: Ok	211 1		
	and and a second se	South a controllatin contraint. Th	Page No: 1 of 2		

		1			Requirement as per IS 10500:2012	
S. No.	Test Parameter	Test Parameter Units	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source
1	Odour		18:3025 -Part-5	Agreeable	Agreeable	Agrecable
2	Colour	Hazen Units	IS:3025 -Part-4	<5	5	15
3	pH	777	IS:3025- Part-11	6.81	6.5-8.5	No Relaxation
4	Tarbidity	NTU	IS:3025 -Part-10	<1	1	5
5	Total Hardness as CaCO3	mg/l	IS:3025 -Part-21	170	200	600
6	fron 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	1S:3025 - Part-16	364	500	2000
9	Calcium as Ca	mg/l	15:3025- Part-40	36	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	19	30	100
ii.	Sulphate as SO4	ngA	4500-SO ₄ E, Turbidity Method, APHA 23 rd Edition 2017	25	200	400
12	Nitrate as NO ₅	mg/l	4500-NO, B Ultraviolet Spectrophotometric Screening Method	12	45	No Relaxation
13	Eluoride as F	nıg/l	4500-F D, APHA 23 ⁻³ Edition 2017	0.40	1	1.5
14	Total Alkalinity as CaCO _{2.}	mg/l	IS:3025 -Part-23	200	200	600

TEST RESULTS

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

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

Note: This report Companie Registeries and bourding and include overleaf.

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TEST REPORT

		BSET	/TR/FORM-56	
	'ess of the Customer : finerals Pvt. Ltd.	Test Report No. : BSET/2020/TR-050	997	
Deojhar Iron Ore Mines		Lab Code No : 200540309 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020		
Sample Descri	ption: Ground Water Sample	Date of Receipt : 07.09.2020		
Quantity	: 1 No. x 2.0 Ltrs Sample	Date of Registration	07.09.2020	
	 No. x 500 ml Sample(Metals) No x 250 ml Sample (Microbiology) 	Date of commencement of testing	08.09.2020	
Packing	: Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	18.09.2020	
Test Required	: As given below	Sample condition at receipt	Found ok	
191. 		Sample tested as received		
	ing: 03.09.2020 mpling: Deojhar Village	ing Details Sampling Method/Procedure: IS 3025 P General Environment conditions: Ok	ant I	
			Page No: 2 of 2	

TEST RESULTS

	Test Parameter				Requirement as per IS 10500:2012		
S. No.		Units Test Method	Test Method	Result	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	T	
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 ^{nl} 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	trigyl	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 A0PHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation	
26	Total Coliforms	CFU/100ml	IS 1622-1981	Absent		· CH PI	

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

Authorized (G.Chandra Maulir Environmental Scientist

.... End of the Report

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

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TEST REPORT

Name & Addr	ess of the Customer :	Test Report No. : BSET/2020/TR-050	VTR/FORM-56	
M/s Tarini Minerals Pvt. Ltd. Denjhar Iron Ore Mines Sample Description: Ground Water Sample		Lab Code No : 200540209 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020 Date of Receipt : 07.09.2020		
Quantity : 1 No. x 2.0 Ltrs Sample	전 4월 11일 · 2017년 2017	Date of Registration	07.09.2020	
	 No. x 500 ml Sample(Metals) No x 250 ml Sample (Microbiology) 	Date of commencement of testing	08.09.2020	
Packing	: Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	18.09.2020	
Test Required	: As given below	Sample condition at receipt	Found ok	
193		Sample tested as received		
	ng: 03.09.2020 mpling: Bilcipada Village	ng Details Sampling Method/Procedure: 18 3025 P General Environment conditions: Ok	art 1 Page No: 1 of 2	

TEST RESULTS							
					Requirement as per IS 10500:2012		
S. No.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source	
1	Odour		15:3025 -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	15:3025 -Part-10	<1	1	5	
5	Total Hardness as CaCO ₃	mg/l	15:3025 -Part-21	215	200	600	
6	Iron as Fe	mg/l	3111 B of APHA 23 ^{td} 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/1	mg/1	IS:3025 - Part-16	428	500	2000	
9	Calcium as Ca	mg/î	[S:3025- Part-40	58	75	200	
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	17	30	100	
U.	Sulphate as SO4	mg/l	4500-SO ₄ E. 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 CaCO3,	mg/l	IS:3025 -Part-23	150	200	600 HP	

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

Authorized Simulary (G.Chandre Moult Environmental Scientis Sec

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

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TEST REPORT

Name & Add	ress of the Customer -	1 Sector and the sector of the sector and the sector and the sector of the sector o	T/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 Lab Code No : 200540209 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020		
Sample Desci	ription: Ground Water Sample	Date of Receipt : 07.09.2020		
Quantity	: 1 No. x 2.0 Ltrs Sample	Date of Registration	07.09.2020	
	1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)	Date of commencement of testing	08.09.2020	
Packing	: Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	18.09.2020	
Test Require	d : As given below	Sample condition at receipt	Found ok	
1000-12-12-12-12-12-12-12-12-12-12-12-12-12-	a tris griss secon	Sample tested as received		
	lling: 03.09.2020 ampling: Bileipada Village	ing Details Sampling Method/Procedure: 15 3025 P General Environment conditions: Ok	Part 1 Page No: 2 of	

TEST RESULTS

					Requirement as per IS 10500;2012	
S. Na.	i. No. Test Parameter Units	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source	
t5	Boron as B	mg/l	4500-B B. Curcumin Method, APHA 23 rd Edition 2017	< 0.10	0.5	I
16	Aluminium as Al	mgʻi	3500 Al B – Eroochrome Cyanine R method	< 0.02	0.03	0.2
17	Copper as Cu	mg/1	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	Solenium as Se	mg/l	3114 C of APITA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20	Zinc as Zo	mgЛ	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21	Cadmium as Cd	mg/l	3111 C of APHA 23 th Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Pb	mg/l	3111 C of APHA 23 ^{nt} Edition 2017	< 0.01	0.01	No Relaxation
23	Mercury as Hg	mg/l	3112 B of APHA 23 ^d 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 A0PHA 23 rd Edition 2017	< 0.02	0,05	No Relaxation
26	Total Coliforms	CFU/100ml	IS; 1622 - 1981	Absent		· CHP

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

Authorized Silmatory (G.Chandra Would) Environmental Scients

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... End of the Report...

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

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

DEOJHAR MINES

SURFACE WATER QUALITY REPORT

MAY-2020



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

TEST REPORT

Lab Coite No : 200838705 Issue Date : (11.06.2020		
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	01.66.2020	
Sample condition at receipt	Found ak	
Sample tested as received		
	Insue Date : (01.06.2020) Your Ref : Letter Dated 25.05. Date of Receipt : 25.05.2020 Date of Registration Date of commencement of testing Date of completion of testing Sample condition at receipt	

Page No: 1 of 2

TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutaats G.S.R 422(E)-1993
1.	Hq		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, mgA	mg/l	T\$:3025 - Part-16	180	3100
5.	BOD for 3days at 27°C.	mg/l	15:3025 Part-44	11	30
6.	COD	mgʻl	IS:3025 - Part-58	72	250
7.	Chloride as Cl,	10g/1	15:3025 -Part-32	2,4	1000
8.	Phosphate as P	mg/)	4500 P, E APHA 23" Edition 2017	< 0.10	5.0
9.	Sulphide as S2.	mgA	4500 S ²⁺ , D APHA 23 rd Edution 2017	< 0.10	2.0
10.	Stuphates as SO ₄	mgA	4500-SO, E, Turbidity Method, 23 rd Edition 2017	18	1000
1:.	Total Volatile Suspended Solida (MLVSS)	mg/l	18:3025- Part-18	30	
12.	Colour	Huzon Unita	IS:3025 -Part-4	5	Not to have Colour and Unpleasant
13,	Ođaur		18:3025 -Part-5	Agreeable	Odour
14.	Irean as Fe	mgʻl	3111 B of APHA 23 rd Edition 2017	0.26	3
l5.	Fluoride as F	mg/J	4500-F D. APIIA 23 ⁴⁴ Edition 2017	0.35	2,0

Interpretation of results: Nil

Deviation from test method: Nil

Authorized Signatory (Venugopal Badri) Quality Manager

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

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TEST REPORT

		OSET	/TR/FORM 56	
Nauc & Address of the Castomer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines		Test Report No. : BSET/2020/TR-02. Lah Cude No : 200838705	113	
Sample Descri	ption: Surface Water Sample	Issue Date : 01.06.2020 Your Ref : Letter Dated 25.05 Date of Receipt : 25.05.2020	2020	
Quantity	1 1 No. x 2.0 Lus Sample	Date of Registration	25.05.2020	
	 No. x 500 ml Sample(Metals) No x 250 ml Sample (Microbiology) 	Date of commencement of testing	25.05.2020	
Packing	: Plastic Bottles& Pro-Surilized Bottle	Date of completion of testing	01.06.2020	
Test Rennired	* As given below	Sample condition at receipt	Found ok	
		Sample tested as received		
	ing: 19.05.2020 mpling: Suna river Upstream	ing Details Sampling Method/Procedure: IS 3025 F General Environment conditions: Ok	art 1 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 APILA 23 rd Edition 2017	< 0.10	2.1
17.	Percent Sodium		BSET/SOP/W &WW-26	42.5	
18.	Residual Sodium Carbonate	mg/l	BSRT/SOP/W &WW-25	21	
1 9 .	Сарратах Сп	mg/l	3111 B of APHA 23 ¹³ Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3110 B of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of APHA 23 ^{.4} Edition 2017	< 0,01	0.05
22.	Zine as Zn	mg/]	3111 B of APHA 23 ^{-C} 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.	โ.เลป มห Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as 11g	mgl	51 12 R of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel 45 Ni	mg/l	3111 H of APHA 23'' Edition 2017	< 0.82	3.0
27,	Total Arsenic as As	луЛ	3114 C of APHA 23 ¹³ Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/l	3111 B of APHA 23 ¹¹ Edition 2017	< 0.02	2.0
20.	Total Coliforns	CFU/100ml	APHA 23 ^{nl} Edition 2017	240	2

Interpretation of results: Nil Deviation from test method: Ni

Deviation from test method: Nil

0) Authorized Signatory (Venugapal Bedri) Quality Manager

--- End of the Report...

Note: This report leanplant methods and negditions mentioned overleaf.

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TEST REPORT

Lab Code No : 200838605 Issue Date : 01.06.2020	
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 ak
Sample tested as received	
	Issue Date : 01.06.2020 Your Ref : Letter Dated 25.05. Date of Receipt : 25.05.2020 Date of Registration Date of Registration Date of commencement of testing Date of completion of testing Sample condition at receipt : 2000

Page No: 1 of 2

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(F.)-1993
1.	рН		IS:3025-Part-11	6.74	5.5 - 9.0
2,	Oil & Grease	mg/l	18:3025- Part-39	<1	10
3.	Foral Suspended Solids	mg/l	15:3025- Part-17	86	100
4.	Total Dissolved Solids @ 105°C, mg/.	mg/l	13:3025 - Part-16	204	2100
5,	BOD for 3days at 27°C,	mgʻl	IS:3025 - Part-44	16	30
6.	COD	mg/l	IS:3025 - Part-58	84	250
7.	Chloride as Cl.	mg/1	IS:3025 -Part-32	36	1000
8.	Phosphate as P	mg/l	4500 P. E APHA 23 " Edition 2017	< 0.10	5.0
y,	Sulphide as S ²	mg/l	4500 S ²⁻ , D APIIA 23 rd Edition 201?	< 0.10	2.0
10.	Sulphates as SO4	mg/l	4500-SO, E, Turbidity Method, 23 rd Edition 2017	22	1000
П.	Total Volatile Suspended Solids (MLVSS)	നുള്ളി	18:3025 Part 18	40	191
12.	Colour	Hazen Units	IS:3025 -Part-4	10	Not to have Colour and Uppleasant
13.	Odaur		IS:3025 -Part-5	Agreeable	Odour
14.	Iron as Fe	μβ	3111 B of APHA 23 ¹⁴ Edition 2017	0.33	3
15.	Fluoride as F	mg/1	4500-1/10, APHA 23 ⁷¹ Edition 2017	0.39	2.0 12

TEST RESULTS

Interpretation of results: Nil-

Deviation from test method. Nil

Authorized Signatory (Yenugupal Badri) Quality Manager

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

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TEST REPORT

HSET/TR/FORM -56

Name & Add	ress of the Customer :	Test Report No. : BSET/2020/TR-02	[]4	
M/s Tarini Minecals Pvt. I.td. Deojhar Iron Ore Mines		Lab Code No : 200838605 Issue Date : 01.06.2020		
Sample Deser	iption: Surface Water Sample	Your Ref : Later Dated 25.05. Date of Receipt : 25.05.2020	2020	
Quantity : 1 No. x 2,0 Ltrs Sample		Date of Registration 25.05.2020		
	1 No. x 500 ml Sample(Metals)	Date of commencement of testing	25.05.2020	
Packing	 I No x 250 ml Sample (Microbiology) Plastic Bottlesse Pre Sterilized Bottle 	Date of completion of testing	01.06.2020	
and an and the second second	I : As given below	Sample condition at receipt	Found ok	
	- The Break server	Sample tested as received		
	ling: 19.05.2020 ampling: Suna river Downstream	ing Details Sampling Method/Procedure: IS 3025 P General Environment conditions: Ok	art 1 Page No: 2 of 2	

TEST RESULTS

5. No.	Text Parameter	Unlts	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16.	Boron as B	m _₿ /]	4500 B, B APHA 23 ¹¹ Edition 2017	< 0.10	2,0
17.	Percent Sodium		BSET/SOP/W &WW-26	45,2	-
18.	Residual Sodium Carbonate	mgʻi	BSET/SOP/W &WW-25	11	
19.	Copper as Cu	mgyl	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.	Selonium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zine as Zn	mg/	3111 B of APIIA 23 ^{nl} Edution 2017	< 0.02	5.0
23,	Cadmium as Cd	mg/)	3111 B of APITA 23" Edition 2017	< 0.003	2.0
24.	Lead as Pb	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.01	â.1
25.	Mercury as Hg	mg/l	3112 B of APHA 23 ^{sc} Edition 2017.	< 0.001	0.01
26.	Nickel as Ni	mgʻl	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mgʻl	3114 C of APHA 23 ⁴ 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 Colifurns	CEU/100ml	APHA 23rd Edition 2017	280	*

Interpretation of results: Nil Deviation from test method: Nil



... End of the Report

Note: This report is an bischief by by starting and north the starting of the

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TEST REPORT

Name & Addre	ess of the Customer :	Test Report No. : BSET/2020/TR-021	15	
M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines Sample Description: Surface Water Sample		Lab Code No : 200838505 Issue Date : 01.06.2020 Your Ref : Letter Dated 25.05.2020 Date of Receipt : 25.05.2020		
Quantity : 1 No. a 2.0 Ltrs Sample		Date of Registration	25.05.2020	
	1 No. x 500 ml Sample(Metals)	Bate of commencement of testing	25.05.2020	
Packing	1 No x 250 ml Sample (Microbiology) : 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		

Page No: 1 of 2

DETAT HTD (RODM =C

S. No	Test Parameters	Units	Test Method	Result	Genéral Standards for discharge of Environment pollutants G.S.R 422(E)-1993
I,	pli	***	IS:3025- Part-! 1	6.62	5.5 9.0
2.	Oil & Grosse	നു/1	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	192	2100
5.	BOD for 3days at 27 ⁰ C,	mg/l	[S:3025 - Part-44	10	30
б.	COD	myl	[S:3025 - Part-58	64	250
7.	Chloride as CI,	mg/l	IS:3025 -Part-32	30	1000
8.	Phosphare as P	mg/l	4500 P, E APITA 23 rd Fidition 2017	< 0.10	5.0
9.	Sulphide as 5 ²	mg/l	4500 S ² , D APHA 23 rd Edition 2017	< 0.10	2.0
10.	Sulphates as SO4	mg/l	4500-SO ₂ E, Turbidity Method, 23 ¹³ 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
13.	Odour		15:3025 -Part-5	Agreeable	Odoin
14.	Iron as Fe	mg/l	3111 B of APIIA 23 rd Educion 2017	0.27	3
15.	Fluoride as F	mg/l	4500 F D. APHA 23 rd Edition 2017	0.32	2.0

TEST RESULTS

Interpretation of results; Nil

Deviation from test method: Nil

Authorized Signatory (Yenugopal Badri) Quality Manager

Note: . his report in an in a start is a start of the sta

4 ' Floor, 'AMITY VILLE', 12-13-1270/71/73, St. Ann's Road, Tamaka, Secunderabad - 500017, Telangana, India Phone :+91.40.49783062 / 27016306 Fax :+91.40.49783063 Email : lab@bsenvitech.com, nfo@bsenvitech.com Website : www.bsenvitech.com CIN Ne, : U74210TG1999PTC032358



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TEST REPORT

Name & Addr	ess of the Customer :	Test Report No. : BSET/2020/TR-021	TR/FORM -56	
M/s Tarini Mi	nerals Pvt. Ltd.	res Report 10 D3E112020/18-021	. 1.9	
Deojhar Iron	Ore Mines	Lab Code No : 200838505		
		Issue Date : 01.06.2020		
		Your Ref : Letter Dated 25.05.2020		
Sample Descri	plinn: Surface Water Sample	Date of Receipt : 25.05.2020		
Quantity	: 1 No. x 2.0 Ltrs Sample	Date of Registration	25.05.2020	
	1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)	Date of commencement of testing	25.05.2020	
Packing	: Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	01.06.2020	
l'est Required	: As given below	Sample condition at receipt Found ok		
200 110 1 -000		Sample tested as received		
	CHARACTER DISCOUNTS	ing Details	1.112	
Date of Sampli Location of Say	ng: 19.05.2020 mpling: Mahadev Nala Upstream	Sampling Method/Procedure: IS 3025 F General Environment conditions: Ok	art 1	
Docaroli di Dil	mpineg, similar start opportun	OCULTAR ENTRY OFFICIAL CONCILIONS, ON	Page No: 2 of 2	

\$. Na.	Test Parameter	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(F)-1993
16.	Boron as B	nıg/l	4500 B, B APHA 23 ^d Edition 2017	< 0.10	2,0
17.	Percent Sodium		BSET/SOP/W &WW-26	41.9	14 C
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W & WW-25	5	•
19.	Copper as Cu	mg/l	3111 B of APHA 23 ⁻⁴ Edition 2017	< 0.02	3.0
20.	Manganese as Mr	mg/l	3111 B of APHA 23 rd Tybtion 2017	< 0.02	2.0
21.	Selenium as Se	mg/l	3114 C of Al'HA 23 ⁻¹ Edition 2017	< 0.01	0.05
22.	Zine as Zn	mg/l	3111 Blof APHA 23 rd Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mgʻl	3111 B of APHA 23 ¹⁴ Biblion 2017	< 0,003	2.0
24.	Lend as Pb	ացվ	3111 B of APHA 23 rd Edition 2017	< 0.01	0.1
25.	Mercury as fig	mg/l	3112 B of APITA 23 th Fultion 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	2111 B of APILA 23 ^{nl} 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 Chronium as Cr	mg/l	3111 B of APILA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CI/U/100ml	APHA 23 rd Edition 2017	300	

Interpretation of results; Nil

Deviation from test method: Nil



--- End of the Report---

Note: This report 48 support antihe terms and and times mentioned overleaf.

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TEST REPORT

		Land to the second seco	/TR/FORM -56	
Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines Sample Description: Surface Water Sample		Test Report No. : BSET/2020/TR-02 Lab Code No : 200838405 Issue Date : 01.06.2020 Your Ref : Letter Dated 25.05 Date of Receipt : 25.05.2020		
Quantity : 1 No. x 2.0 Ltrs Sample		Date of Registration	25.05.2020	
	1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbiology)	Date of commencement of testing	25.05.2020	
Packing	: Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	01.06.2020	
and the second second second	d : As given below	Sample condition at receipt	Found ak	
- and - million -	- Los Brien ester	Sample tested as recrived		
	Ding: 19.05.2020 Jampling: Mahadev Nala Downstream	ing Details Sampling Method/Procedure: IS 3025 F General Environment conditions: Ok	art I Page No: 1 of 2	

General Standards for discharge of 8. No. Test Parameters Units Test Method Result Environment pollutants G.S.R 422(E)-1993 1. pII 18:3025- Part-11 6.74 5.5 - 9.0----2. Oil & Grease mg/1 IS:3025- Part-39 10 <1 3. Totel Suspendial Solids 1S:3025- Part-17 mg/l 100 86 4. Total Dissolved Solids (a) 105°C, mg/l mg/: IS:3025 - Part-16 190 2100 5. BOD for 3days at 27"C. IS:3025 - Part-44 30 mg/l 15 6. COD IS:2025 - Part-58 76 250 mg/l 7. Chloride as Cl. mg-1 IS:3025 -Part-32 40 1000 4500 P, E 8. Phosphate as P 5.0 < 0.10 c:g/1 APHA 23rd Edition 2017 4500 ST. D 9. Sulphide as S² < 0.10 2.0 mg/l APHA 23rd Edition 2017 4500-SO4 E. 10. Sulphates as SO₄ Furbidity Method, 1000 mg/l 27 23" Edition 2017 Total Volatile Suspended Solids 11. mg/l IS/3025- Part-18 34 (MLVSS) Hazen Not to have Colour 12. Colour 18:3025 -Pam-4 10 Units and Unpleasant 13. Odour IS:3025 -Part-5 Odour Agreeable 3111 B of 14. Iron as Fe 0.31 3 mg/l APHA 23st Edition 2017 4500-F D, 15. Fluoride as F mg/l 0.35 2.0 APHA 23 ^c Edition 2017 Interpretation of results: Nil-

TEST RESULTS

Deviation from test method; Nil

NI Authorized Signatory (Veaugopal Badri) Quality Manager

States from descharge and

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

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

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TEST REPORT

		The second se	TR/FORM -56	
New Street Street	ress of the Costomer : Iinerals Pvt. Ltd.	Test Report No. : BSET/2020/TR-02	(16	
Decihar Iro	I Oce Mines	Lab Code No : 200838405 Issue Date : 01.06.2020		
		Your Ref : Letter Dated 25.05.2020		
Sample Descr	iption: Surface Water Sample	Date of Receipt : 25.05.2020		
10 L	: I No. x 2.0 Ltrs Sample	Date of Registration	25.05.2020	
	1 No. x 500 ml Sample(Metals) 1 No x 250 ml Sample (Microbinlogy)	Date of commencement of testing	25.05.2020	
Packing	: Plastic Bottles & Pre-Sterilized Bratte	Date of completion of testing	01.06.2020	
Test Required	l : As given below	Sample condition at receipt	Found ok	
		Sample cested as received		
200 0220		ing Details		
	ling: 19.05.2020 mpling: Mahadev Nala Downstream	Sampling Method/Procedure: IS 3025 F General Environment conditions: Ok	'art I	
Sector of St	indering, character risid Diranstruati	CROCI DI ENVILVENTE EL LINULTURA. CA	Page No: 2 of 2	

S. NO.	Test Parameter	Units	Test Method	Result.	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16.	Bonin 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	Луш	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	mgʻl	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	3111 B of APHA 23 ²⁴ Edition 2017	< 0.02	5.0
23.	Cadmum 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	mgd	3112 B of APHA 23 rd Edition 2017	< 0.001	0.01
26.	Nickel as Ni	mg/l	3111 B of APHA 23 ¹³ Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 Cof APHA 23 rd Edition 2017	< 0.01	0.2
28,	Total Chromium as Cr	mg/l	311: B of APHA 23 th Edition 2017	< 0.02	2.0
29.	Total Coliforns	CFC/100ml	APHA 23 nd Edition 2017	350	

TEST RESULTS

Interpretation of results: Nil

Deviation from test method: Nil



- End of the Report...

Note: This report to an his stand and the stand of the stand overlest.

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TEST REPORT

Name & Add	iress of the Customer :	Test Report No. : BSET/2020/TR-021	17	
M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines Sample Description: Surface Water Sample		Lab Code No 200838305 Jewar Date : 01.06.2020 Your Ref : 1.cder Dates! 25.05.2020 Date of Receipt : 25.05.2020		
Quantity : 1 No. x 2.01.trs Sample	Date of Registration	25.05.2020		
	1 No. x 500 ml Sample(Metals)	Date of commencement of testing	25.05.2020	
Packing	1 No x 250 ml Sample (Microbiology) : Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	01.06.2020	
33332F	d : As given below	Sample condition at receipt	Found ok	
Test requires		Sample tested as received		
	ling: 19.05.2020 ampling: Baitarani River	ing Details Sampling Method/Procedure: IS 3025 F General Environment conditions: Ok	art 1 Page No: 1 of 2	

General Standards for discharge of S. No Test Parameters Units Test Method Result Environment pollutants G.S.R 422(E)-1993 IS:3025- Part-11 6.74 5.5 - 9.01. pH ----2. Oil & Gicase IS:3025- Part-39 10 mg/1 <13. Total Suspendeal Solids mg/l IS:3025-Part-17 62 100 IS:3025 - Part-16 4. 2100 Total Dissolved Solids (a) 105°C, mg/l mg/l 184 S. BOD for Idays at 27°C. 30 mg/l [S:3025 - Part-44 10 COD LS:3025 Part-58 250 6. mg/l 68 Chloride as Cl, [S:3025 -Part-32 7. 24 1000 mg/l 4500 P.E 8. Phosphate as P < 0.10 5.0 mg/1 APHA 23rd Edition 2017 4500 St. D 9. Sulphide as S2 mg/! < 0.10 2.0 APHA 23rd Edition 2017 4500-SO₄ E. 10. Sulphates as SO, 1000 Turbidity Method. 16 T.g.1 23^{r3} Edition 2017 Total Volatile Suspended Solids 11. 15:3025-Part-18 24 mg/l (MLVSS) Hazen Not to have Colour 12 Colour (\$:3025 -Part-1 5 Units and Unplussant

TEST RESULTS

Interpretation of results: Nil

Iron as Fe

Odour

13.

14.

15.

Deviation from test method: Nil

Fluoride as F

Authorized Signatory (Venugopal Badri) Quality Manager

Odour

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APPERT AND ADDRESS CO

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

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IS:3025 -Part-5

3111 B of

APHA 23th Edition 2017 4500-F D.

APHA 23rd Edition 2017

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Agreeable

0.26

0.29



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TEST REPORT

Name C. I.d.	dress of the Customer :		/TR/FORM -56	
M/s Tarini l Deojhar Iro	dress of the Customer : Minerals Pvt. Ltd. on Ore Mines ription: Surface Water Sample	Test Report No. : BSET/2020/TR-02 Lab Code No : 200828305 Issue Date : 01.06.2020 Your Ref : Letter Dated 25.05 Date of Receipt : 25.05.2020		
Quantity	: 1 No. * 2.0 Lt:s Sample	Date of Registration	25.05.2020	
	I No. x 500 ml Sample(Metals)	Date of commencement of testing	25.05.2020	
Packing	 I No x 250 ml Sample (Microbiology) Plastic Bottles& Pre-Sterilized Bottle 	Date of completion of testing	01.06.2020	
State of the second	ad : As given below	Sample condition as receipt Found ok		
The Requirer . Asgive body		Sample tested as received		
	pling: 19.05.2020 Sampling: Baitarani River	ing Details Sampling Method/Procedure: IS 3025 F General Environment conditions: Ok	^l art] Page No: 2 of 2	

TEST RESULTS

8. 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" Edition 2017	< 0.10	2.0
17.	Porcent Sodium	5	BSET/SOP/W&WW-26	42.7	35
18.	Residual Sodium Carbonate	mg/l	BSEJ/SOP/W &WW-25	16	
19.	Copper as Cu	ing/1	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
20.	Мапуалске из Мп	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
21.	Selenium as Se	тgЛ	3114 C of APITA 23 rd Edition 2017	< 0.03	0.05
22.	Zine as Zn	mg⁄l	3111 U of APHA 23 rd Edition 2017	< 0.02	5.0
23.	Cadmium as Cd	mg/1	3111 H of APHA 23 ^{nl} Edition 2017	< 0.083	2.0
24.	Lead as Ph	mg".	3111 B of APHA 23 rd Edition 2017	< 0.01	U.1
25.	Mercury as Hg	mgl	3112 D of APILA 23 rd Edition 2017	< 0,001	0.01
26.	Nickel as Ni	mgʻl	3111 B of APHA 23 rd Edition 2017	< 0.02	3.0
27,	Total Arecnic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.2
28,	Total Chromum as Cr	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
29.	Total Coliforms	CI/U/100ml	APILA 23 rd Edition 2017	300	

Interpretation of results: Nil

Deviation from test method: Nil



--- End of the Report---

Note: This report icophism of the second sec

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DEOJHAR MINES

SURFACE WATER QUALITY REPORT

SEPTEMBER-2020



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TEST REPORT

Name	& Address of the Customer :		Test Report No. : BS		T/TR/FORM -56 \$134	
7.5	uini Minerals Pvt. Ltd.			Lab Code No : 200536609		
Deajh	ar Iron Ore Mines		Type Date : 19.09.2620			
e	D	Territor March 19 194	tter Dated 07.09	9.2020		
	Description: Surface Water Sample		Date of Receipt : 07	,29.2020		
Quanti	ty : 1 No. x 2.0 Ltts Sample 1 No. x 500 ml Sample(Metals)	š i	Date of Registration	8	07.09.2820	
	L No x 250 rdl Sample (Microt	nology)	Date of commenceme		08.09.2020	
Packin	g Piastic Scitles& Pro-Storilized	Boulz	Date of completion of		18.09.2020 Found ox	
Test Re	gaired : As given below		Sample condition at Sample tested as reco		Pound bx	
	Sampling: 03.09.2020 a of Sampling: Suns river Upstream		Sampling Details Sampling Method/Proce General Environment c I RESULTS		Part I Page No: 1 of 1	
	1				General Standards	
s. No	Test Parameters	Finits	Tesi Method	Result	for discharge of Knvironment pollulants G.S.R 422(E)-1993	
1.	pl1	1999	15:3025- Part-11	6.69	5.5-9.0	
2.	Oil & Crease	mg/l	IS:3025-Part-39	<1	10 -	
з.	Total Suspended Solids	mg/.	(S.3025- Part-17	72	100	
£.,	Total Disso ved Solids @ 1051C, mg/l	mg/l	IS:3025 - Part-16	170	2100	
5,	BOD for 3days at 27ºC.	നുി	JS:3025 Part 44	12	50	
6.	COD	c:g/l	1S:3025 - Part-58	72	250	
7.	Chloride as Cl,	mg/l	18:3025 -Part-32	19	1000	
8.	Phosphata as P	mg/l	4500 P. B APITA 33 ⁹ Ecition 2017	< 0.10	50	
Ŷ,	Sulphide as S ^{z.}	me/l	4500 5 ² , D APHA 23 ⁴ Edition 2017	< 0 .10	20	
IO,	Sulphates as SO ₁	mg⁄l	4505-SO ₄ E, Turbidity Method, 23 rd Edition 2017	15	1 (400	
II,	Total Volatile Suspended Solids (MLVSS)	.mg/l	IS(3025-Pu()-18	23	.+	
12.	Colour	Hazen Units	IS:3025 Part-4	5	Not to have Colour and Utiplezsant	
2 % -	Odour	***	18:3025 Part 5	Agreeable	Odour	
14.	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.24	ł	
15.	Fluoride as F	ngð	4500-F D, A DUA 33 ^{Cl} Edition 20-7	0.31	2.0	

Interpretation of results: Nil, Deviation Form lost method: Nil

Authorized Singators (G.Chandra Mouli) Environmental Science 38

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TEST REPORT

No. : BSET/2020/WS-05	T/TR/FORM -56	
> : 200536609 : 19.09.2020	Car (1,0)	
: Letter Dated 07.09. ipt : 07.09.2020	.2020	
Date of Registration		
nencement of testing	08.09.2020	
letion of testing	18.09.2020	
ition at receipt	Found ok	
Sample tested as received		
4		

Page No: 2 of 2

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TEST	FRES	ULTS

S. No.	Test Parameter	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16,	Horon as B	mg/l	=500 B, D APHA 23 th Exlition 2017	< 0.10	2.0
17.	Percent Sodium		BSET/SOP/W & WW-26	41,1	1.00
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W &WW-25	21	
19.	Coppenias Cu	cag/l	5111 B of APHA 23 rd Edition 2017	< 0.02	3.0
20	Mauganese as Mn	mg/l	3111 B of APTIA 23 ¹⁴ Edition 2017	< 0.02	2.0
21,	Selenium as Sc	mg/1	2114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zine as Zn	ing/l	3111 D of APHA 23 [™] Edition 2017	< 0.02	5.0
23,	Cadmium as Ed	mg/1	3111 B of APILA 23 ^w Edition 2017	< 0.003	2.0
24.	Lead as Po	mg/.	3111 Bloff APHA 23° Ecition 2017	< 0.01	0.1
25	Mercury as Hg	eog/l	3112 Blot APHA 22 rd Edition 2017	< 0.001	0.01
26	Nickel as Ni	mg/l	3111 B of APHA 23" Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	ngA	3114 C of APILA 23 th Eatton 2017	< 0.01	3.2
28,	Total Chrotnium us Cr	mg/l	3111 B of APHA 23 rd Editor 2017	< 0.02	2.0
29.	Tetal Colifornis	CEU/100ml	APHA 25" Edition 2017	240	2

Interpretation of results. Nil, Deviction from test method: Nil

Hind of the Reportant

Authorized Signa (G.Chandra Mouli Environmental Scientis

Note: This report is subject to the terms and conditions mentioned overleaf. "Compliants Register is available at Laboratory.

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TEST REPORT

Name & Address o	of the Customer :	Test Report No. : BSET/2020/WS-05	135	
M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines Sample Description: Satlace Water Sample		Lab Code No : 200536509 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020 Date of Receipt : 07.09.2020		
Quantity :	1 No. x 2.0 Ltts Sample	Date of Registration	07.09.2020	
	(No. x 500 ml Sample(Metals)	Date of commencement of testing	68.09.2020	
	1 No x 250 ml Sample (Microbiology) fastic Rolllas& Pre-Sterilized Bottle	Date of completion of testing	8.09.2020	
Test Required : A		Sample condition at receipt Found ok		
the confirmer is	C BITCH DELIVIN	Sample tested as received		

Date of Sampling: 03.09 2020 Location of Sampling: Suna river Downstream Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok

Page No: 1 of 2

TEST RESULTS

S. No	Test Parameters	Duits	Tent Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
1.	рН		18:3025- Part 11	6,78	5.5 - 9.0
2.	Oil & Grease	ing/I	15:3025- Patt-39	<1	10
3.	Total Suspended Solids	mg/l	15:3025-Part-17	89	100
4,	Total Hissolved Solids @ 105°C, mg/l	mgʻl	15:3025 - Part-36	205	2.100
5.	BOD for Bdays at 27°C,	:ng/l	IS:3025 - Paut-44	18	30
6.	COD	mg/l	IS:3025 - Part-58	108	250
7.	Chloride as Cl,	myi	(\$3025 -Part-32	24	1000
8,	Phosphate as P	mg/l	4500 P. E APHA 23 rd Edition 2017	< 0.10	5.U
9.	Sulplide as S ²⁺	mg/l	4500 S ² , D AFHA 23" Edition 2017	< 0.10	2.0
10,	Sulphates as SO ₄	org/l	4500-SO, E, Turbidity Method, 23" Edition 2017	22	1000
11.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3625 Part 18	37	2
12,	Colo.r	Hazen Units	15:3025 -Part-4	10	Not to have Colour and Unpleasant
13,	Ödeur		15:3025 -Part-5	Agreeable	Odour
±Δ,	Iron as Fe	ուցլ	3.11 B of APHA 23 ^{al} Falilion 2017	0,26	3
:5,	Fluerice as F	mg/l	4500-F D, APHA 23 ^a Edihon 2017	0.30	2.0

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

Authorized Straatory (G. Chandra Flour) Environmental Scientist

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TEST REPORT

		DSET	/TR/FORM-56	
Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines Sample Description: Surface Water Sample		Test Report No. : 135/07/2020/WS-05135 Lab Code No : 200536509 Issue Date : 19,09,2020 Your Ref : Letter Dated 07.09.2020 Date of Receipt : 07.09.2020		
Quantity	: I No. x 2.0 Lits Sample	Date of Registration	07.09.2020	
	No. x 500 m° Sample(Morals)	Date of commencement of testing	08 09.2020	
Packing	i No x 250 ml Sample (Microbiology) Plastic Bottles& Pre-Sterilized Bottle	Date of completion of testing	18.09.2020	
	L : As given below	Sample condition at receipt	Found ok	
The required the grantes of		Sample tested as received		
	Sampl IIng: 05.09.2020 ampling: Suna river Downstream	ing Details Sampling Method/Procedure: IS 3025 P General Environment conditions: Ok	art J Page No: 2 er 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	ng/	4500 B, B APHA 23 rd Edition 2017	< 0.10	2.0
:7,	Percent Sodium		USE I/SOP/W &WW-26	44.3	14
18.	Residual Sodium Carbonate	mg/l	BSET/SOP/W&WW-25	27	100 Mar
19.	Соррат аз Сц	mg/l	3111 B of APHA 23 rd Isdinon 2017	< 0.02	3.0
20.	Малданско вк Ми	mg/l	3111 B of APUA 23 rd Edition 2017	< 0.02	20
21.	Selonium as Be	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zine 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 APEA 23 rd Edition 2017	< 0.003	2.0
24.	Lead as Pb	mgC	3111 B of APHA 23 ^s Edition 2017	< 0.01	0.1
25.	Mercury as Hg	mg/	3112 B of APHA 23" Edition 2017	< 0.001	0.0:
26.	Nickel as Ni	mg/l	3111 B of APHA 23 [*] Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	mg/l	3114 C of APIIA 23" Ecition 2017	< 0.01	D.Z
28.	Total Cleaning as Cr	mg/l	S111 B of AP.1A 23 rd Edition 2017	≺ 0.02	2.0
29.	Total Coliforms	CEU/(00m)	APPA 23 st Edition 2017	300	1

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

*** End of the Report-**

Authorized Sugatory (G.Chandra Mobili) Environmental Scientist * Sa5

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TEST REPORT

Name & Address of the Customer : M/s Tarini Minerals Pvt. Ltd. Deojhar Iron Ore Mines Sample Description: Surface Water Sample		Test Report No. : BSET/2020/WS 05130 Lab Code No : 200536469 Issue Date : 19.09.2020 Your Ref : Letter Dated 07.09.2020 Date of Receipt : 07.09.2020		
	1 No. x 500 ml Sample(Merzis) 1 No x 250 ml Sample (Microbiology)	Date of commencement of testing	08.09.2020	
Packing	: Plastic Bottics& Prc Starilized Bottle	Date of completion of testing	18.09,2020	
	: As siven he'ow	Sample condition at receipt	Found els	
Les les faires : a function de la section		Sample tested as received		

Page No: 1 of 2

S. No	Test Parameters	Units	Test Viethod	Result	General Standards for discharge of Environment pollmants G.S.R 422(E)-1993
1,	וזק	أعيتك	IS:3025- Put-11	6.62	5.5 9.0
2.	Onl & Grease	Ing/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	mgʻ.	15:3025 - Part-16	185	2100
5.	BOD for 3days at 27°C,	ing/,	[S:3025 - Part-44	8	30
6.	COD	mg/:	IS:1025 - Part-58	58	250
7.	Chloride as Cl.	mg/l	18:3025 Part-32	25	1000
8.	Phosphate as P	mg/l	4500 P, E APIIA 23 rd Edition 2017	< 0.10	5.0
9.	Sulpinde as S ²	ng/1	4500 S [*] , D APHA 23 th Edition 2017	< 0.10	2.0
10.	Sulphetes as SO.	ությ	4500-SO ₂ P, Turbidity Method, 23 ¹⁰ Edition 2017	16	1000
E.	Total Volatile Suspended Solids (MLVSS)	negl	18:3025- Part-18	24	4
12,	Colour	Hazen Units	IS:3025 -Part-4	5	Not to have Colour and Unpleasant
13,	Udour		IS:3025 Part 5	Agreeable	Odour
14,	lium as Fo	mg/l	3111 B or APHA 231 (Cition 2017	0,29	3
15,	Fluaride ss F	mg/l	4500-F D, APILA 23 ^d Edition 2017	0.36	2.0

TEST RESULTS

Interpretation of results: NF, Deviation from test method; Ni



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TEST REPORT

Test Report No. : BSET/2020/WS-05136 Lab Code No : 200536409 Issue Date : 19.09.2020 Your Ref : Let er Dated 07.09.2020 Bate of Receipt : 07.09.2020				
			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 old			
Sample tested as received				
	Lab Code No : 200536409 Issue Date : 19.09.2020 Ymr Ref : Let er. Dated 07.09 Date of Receipt : 07.09.2020 Date of Receipt : 07.09.2020 Date of Registration Date of commencement of testing Date of completion of testing Sample condition at receipt			

Page Not 2 of 2

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8. 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/ï	4500 B, B APHA 23" Edvior. 2017	~ 0.10	2.0
17.	Percent Sodium	55	BSET/SOP/W & WW-26	42,5	17
13,	Residual Sodium Carbonate	mgi	BSET/SOP/W & WW-25	27	1.2
19.	Copper as Cu	tag/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.ذ
20.	Mangamese as Mn	mg/l	S111 B of APHA 23 ⁴ Edition 2017	< 0.02	2,0
21.	Selenium as Se	mg/l	5114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zinc as Zn	mg/l	5111 B of APEA 23 rd Edition 2017	< 0.02	5.0
23.	Carbnium as Cd	mg/l	5111 B of APHA 23 rd Ection 2017	< 0.003	2.0
24.	Load as Pb	mg/l	3111 B of APHA 23 "Edition 2017	< 0.01	().J
25.	Merculy as Ha	mg/l	3112 B of APEA 23 ¹⁰ Edition 2017	< 0.001	D,D1
26.	Niekel as Ni	mg/l	5111 B of API(A 23 rd Educion 2017	< 0.02	3.0
27.	Total Arsenic as As	mgd	3114 C of APHA 23 ¹⁴ Edition 2017	< 0.01	Ç.2
28.	Total Chromium as Cr	mg/l	5111 B of APHA 23 rd Edition 2917	< 0.02	2.0
29.	Total Colifo:ms	CFU/100mJ	APHA 23 rd Edition 2017	170	-

TEST RESULTS

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

···· End of the Report---

Authorized Signatory (G.Chandra Mouli EnvironmentalScientis

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TEST REPORT

Same & Addro	as of the Customer :	Test Report No. : BSET/2020/WS-05	137	
M's Tarini Minerals Pvt, Ltd. Deojhar Iron Ore Mines Somple Description. Surface Water Sample		Lab Cude No : 200536309 Issue liste : 19,09/2020 Your Ref : Latter Dated 07.09.2020 Date of Receipt : 07.09.2020		
Quantity : 1 Ne. x 2.0 Ltts Sample		Date of Registration	07.09.2030	
1 No. x 500 ml Sample(Metals)	Date of commencement of testing	08,09.2020		
Packing	I No x 250 ml Sample (Microbiology) king : Plastic Bottles& Pre-Sterilized Bottle t Required : As given below	Hate of completion of testing	18.09.2030	
1947901111192 19 19		Sample condition at receipt	hound ak	
		Sample tested as received		

Page No: 1 of 2

CALLER CONTRACTOR

8. Nu	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollotaats G.S.R 422(E)-1993
E.	pl1		(S:3025- Part-11	6.74	5.5 - 9.0
3.	Oil & Grease	mg/1	IS:3025 Part 39	-< 1	10
Э.	Total Suspended Solids	mg/l	IS:3025- Part-17	105	100
4,	Total Dissolved Solids @ 105°C, mg/l	mgG	[S:3025 - Patt-16	212	2100
5.	BOD for 3days at 27°C,	mg/l	(S:3025 - Part-44	14	30
6.	COD	mg/.	[S:3025 - Pari-58	107	250
7.	Coloride as Cl.	men	IS:3025-Part-32	28	1000
8.	Phusphale as P	⊏ ք′l	1500 P, E APHA 2 ^{3rd} Edition 2017	< 0.10	5.0
9.	Sulphide as S ^{3.}	ലൂ	4500 S ² , D APHA 23 ¹⁴ Edition 2017	< 0.10	2.0
16.	Sulphates as SO-	លស្កា	4500-304 E. Turbidity Method, 23 ²⁴ Edition 2017	21	1000
R.	Total Volatile Suspended Solids (MLVSS)	mg/l	IS:3025-Part-18	35	-
12.	Coleir	Hazen Linits	IS:3025 Part 4	10	Not to have Colour and Unpleasant
13.	Odour		18:3025 Part 5	Agrecable	Odour
14.	fron as Ec	mg/1	3111 B of APHA 23 ⁿ Edition 2017	0.33	3
15.	Flueride as F	ալչՂ	(500-F 1), APHA 23 ¹⁷ Edition 2017	0.38 A	2.0

TEST RESULTS

Interpretation of results; Nil, Deviation from rest method. Nil



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Note: This report is subject to the terms and conditions mentioped overleaf. Compliants Register's available at Laboratory.

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TEST REPORT

rt No. : BSBT/2020/WS-05 No : 200536309 : 19.09.2020 : Letter Dated 97.09			
arint + 07 20 2020			
Date of Receipt : 07.09.2020			
gistration	07:09.2020		
mmencement of testing	08.09.2020		
nipletion of testing	18.09 2020		
ndition at receipt	Found ok		
Sample tested as received			
1 No x 250 ml Sample (Vicrobiology) Plastic Bortles& Pre-Sterilized Boule As given below Sample condition at receipt Sample tested as received g: 03.09.2020			

Page No: 2 of 2

AND DESCRIPTION OF A

S. No.	Test Parameter	Enils	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16.	Boren es B	my/l	4500 H, B APHA 23 rd Edition 2017	< 0.10	2.6
17.	Percent Socium	*	BSET/SOIVW &WW-96	45.1	14
18.	Residual Sedium Carbonace	നുള്	BSET/SOP/W & WW-25	27	
19.	Copper as Cu	mg/l	3111 II of APHA 23 ^{nt} Edition 2017	< 0.02	3.0
20.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.0Z	2.0
21.	Selenium as Se	mgʻl	3114 C of APHA 23 ¹⁴ Edition 2017	< 0.61	0.05
22,	Zine as Zn	mg/1	3111 B of APHA 23 ^{nl} Ed tion 2017	< 0.02	> 0
23,	Cadmium as C.d	m[t4]	Mill Biof APHA 23 ^{re} Edition 2017	< 0.003	2.0
24.	Lesi as Pb	mg/i	3111 B of APITA 23 th Ed tion 2017	< 0.01	Q I
25.	Mercupy as Hg	mg/	3112 B of APHA 23 ^{cl} Edition 2017	< 0.001	0 01
26,	Nhézel as Ni	mg/l	3111 Blot APHA 23' Edition 2017	< 0.02	3.0
27.	Total Arsenic as As	me/l	3114 C of APIIA 23 rd Edition 2017	< 0.01	0.2
28.	Total Chromium as Or	rrg/l	3111 B of APHA 23 ⁴ Edition 2017	< (J,02	2.0
29.	Total Coliforns	CFGE105mL	APHA 23 rd Edition 20-7	220	e (p)

TEST RESULTS

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



--- End of the Report----

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TEST REPORT

Date of Receipt : 07 09.2020		
Date of Registration	67.09.2020	
Date of commencement of lesting	08.09.2020	
Date of completion of testing	18.03.2020	
Sample condition at receipt	Found ok	
Sample tested as received		
)	Date of commencement of lesting Date of completion of testing Sample condition at receipt	

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(F)-1993
-E	p ^{EI}		18:3025-Part-14	6.69	5.5-9.0
2.	Oil & Grease	mg/l	18:3025- Part-39	<1	10
3.	Total Suspended Solids	ıng/l	IS:3025-Part-17	70	100
4	Total Dissolved Solids @ 105°C, mg/l	mg/l	(S:3025 - Part-16	235	2100
5.	BOD for 3deys at 27°C,	mg/l	15:3025 - Part-44	19	30
б.	COD	ng/l	IS:3025 - Part-58	92	250
7,	Chloride as Cl.	mg/l	IS:3025-Part-32	25	0001
8.	Phosphate as P	:mg/l	4500 P. E APITA 2311 Edition 2017	< 0.10	5.0
э.	Sulphide as S ²⁻	mg/l	4500 S ²⁵ , D APHA 23 ¹⁵ Edition 2017	< 0.10	2,0
30.	Sulphates as SO ₁	mg/l	4500-SO ₄ E, Turbid:ty Method, 23 ¹⁴ Edition 2017	17	1600
:1.	Total Volatile Suspended Solids (MLVSS)	mgrt	1S:3025- Part 18	19	18
12,	Colour	Hazes. Units	IS:2025 -P2rt-4	5	Not to have Colour and Unp.casant
1.1	Odeur		IS:3025-Part-5	Agreeable	Odour
14,	Iron as Fa	m ₆ /	3111 B of APHA 23 ^{er} Edition 2017	0.24	3
15.	Fluoride as F	mg/l	4500-P D. APHA 23" Edition 2007	0.28	2.0

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

Authorized Separatory (G.Chandrasofoul) Environmental Scientify

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TEST REPORT

Test Report No. : BSET/2020/WS-05138 Lob Code Nu : 200536209 Issue Date : 19/09.2020 Your Ref : Lottor Dated 07.09.2020		
Date of Receipt : 07 (19,2020		
Date of Registration	27.09.2020	
Date of commencement of testing	58.09.2020	
Date of completion of testing	18 09.2023	
Sample condition at receipt	Found ok	
Sample rested as received		
	Lob Code Nu : 200536209 Issue Date : 19.09.2020 Your Ref : Lottor Dated 07.09 Date of Receipt : 07.09.2020 Date of Receipt : 07.09.2020 Date of Receipt : 07.09.2020 Date of commencement of lexting Date of completion of festing Sample condition at receipt	

Page No: 2 of 2

S. No.	Test Parameter	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R 422(E)-1993
16.	Boton siz B	mg/1	4500 B, B APITA 23 ⁴⁴ Edition 2017	< 0.10	2.0
17.	Percent Sedium	-	BSET/SOP/W &WW-26	41.8	1
13,	Residual Sodium Carbonate	mg/.	BSET/SOP/W &WW-25	48	a the
19,	Copper as Cu	rag/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3.6
20.	Manganese as Mn	:5 <u>8</u> /1	3111 B of APHA 23 ^{rs} Eastion 2017	< 0.02	2.0
21,	Solonium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.05
22.	Zine as Zn	ing/l	3111 B of APHA 23 ¹⁰ Edition 2017	< 0.02	5.0
23.	Cadmiren as Cid	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.003	2.0
24.	Load as Pb	mgʻl	3111 B of A3HA 23 ° Edition 2017	< 0.01	0. ł
25.	Mercury as .1g	mg/l	3112 B tof APHA 23 [×] Ecition 2017	< 0.081	והמ
26.	Nickel as Ni	nig/]	3111 B of APHA 23 ° Edition 2017	< 0.02	3.0
27,	Total Arsenia as As	me".	3114 C of APHA 23 ^d Edition 2017	< 0.01	0.2
28.	Total Chromium as Cr	mg/.	3111 B of APHA 23 rd Edition 2017	< 0.02	2.0
24,	Total Coliforns	CFU/100ml	APHA 23.4 Edition 2017	280	-

TEST RESULTS

Interpretation of results: Ni., Doviation from test method; NII

Authorized Signatory (G.Chandra Atpulia Environmental Scientise

.... L'ind of the Report-

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