TARINI MINERALS PVT. LTD.

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

Ref No: DIOM/SPCB/ES/2020- 48

Date: 15.09.2020

The Member Secretary,
State Pollution Control Board, Odisha,
Parivesh Bhawan, A/118,
Nilakantha Nagar, Unit-VIII,
Bhubaneswar-751012.

Sub: Environmental Statement of "Deojhar Iron Ore Mines of M/s. Tarini Minerals Pvt. Ltd." located in Thakurani RF near village Deojhar,Tehsil-Barbil, Dist.: Keonjhar" for the year ending March- 2020.

Sir,

With reference to the above, we are herewith submitting the "Annual Environmental Environmental Statement" for the financial year ending **March-2020 (2019-20)**" in **Form-V** as per rule-14 under Environment (Protection) Rules, 1986.

This is for your kind information, please.

Thanking You,

Yours Sincerely,

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

Encl. : *As above.*

Copy to: *The Regional Officer, State Pollution Control Board, Regional Office, College Road, Dist.: Keonjhar, Odisha.*

The Member Secretary, SEIAA, Odisha (MoEF&CC),Bhubaneswar -751 022.
E Mail: seiaaorissa@gmail.com

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

[FORM-V]

(See Rule 14)
Environment Statement for the financial year ending the 31st March 2020

PART-A

(1)Name and address of the owner / Occupier of the industry, Operation or process:	-	**Deojhar Iron Ore Mine** **M/s. Tarini Minerals Pvt. Ltd.** **Works office: Baneikala, Joda,** **Dist. Keonjhar, Phone: 0661-240-0139**
(2) Industry category Primary	-	**(STC CODE) Secondary-(SIC Code)**
(3)Production capacity Units	-	**1.5 MTPA**
(4)Year of establishment	-	**1994**
(5)Date of the last Environmental Statement Submitted	-	**10.09.2019**

PART-B

Water and Raw material Consumption:

(1)Water Consumption m^3/day - **75 m^3/ Day**

Process (Dust suppression, Green Belt development & Workshop) - **60, 08 & 03 m^3/Day**
Domestic - **04 m^3/Day**

Name of Product — Process water consumption per unit of output

Sized Iron Ore — **Not Applicable**

	During the previous Financial year	during the current financial year
	(1)	(2)
(1)	0.2105 KL/ Tonne	0.206 KL/ Tonne
(2)	(40535 Tonne in 2018-19)	(132538.680 Tonne in 2019-20)

1. Substituted by rule 2 (b) of the Environment (Protection) Amendment rules, 1993 notified vide G.S.R vide G.S.R 3'6 (E) dated 22.04.1993.

(ii) Raw material consumption - **Not Applicable**

Name of raw Material	Name of Products	Consumption of raw material Per unit of out put	
		During the previous	during the current Financial Year
			Financial year

*Industry may use codes if disclosing details or raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment /unit of output - **Not Applicable**
(Parameter as specified in the consent issued)

(1)

Pollutants	Quantity of pollutants discharged in (mass/day)	Concentration of pollutants on discharges (mass/volume)	% of variation from prescribed standard with reason

(a)

1. Water- (Surface Run-Off Discharge during monsoon period)

Different Parameters	***Norms***	***Result***	***Quantity of pollutant discharged mass/volume***	***% of variation from prescribed standard***
Total suspended solids(TSS)	**100**	30	28.04	70%
Iron	**3**	0.21	0.20	93 %
Manganese(Mn)	**2**	1.5	1.40	25 %

2. Site Specific Working Effluent cum ETP

Different Parameters	***Norms***	***Result***	***Quantity of pollutant discharged mass/volume***	***% of variation from prescribed standard***
Total suspended solids(TSS)	**100**	72	0.36	28 %
Total Iron (Fe)	**3**	0.88	0.0044	71 %
Manganese(Mn)	**2**	0.30	0.00150	85 %

3. Site Specific Working Sewage treatment plant (STP)

Different Parameters	***Norms***	***Result***	***Quantity of pollutant discharged mass/volume***	***% of variation from prescribed standard***
Total suspended solids(TSS)	**200**	84.17	3.37	58 %
Oil& grease	**10**	5.95	0.24	41 %
Total Iron (Fe)	**3**	1.02	0.04	66 %

Air: Not Applicable

Note: Present is no such trade effluent and source emissions, expect surface run - off discharge

PART – D

Hazardous Wastes

(As specified under Hazardous Waste/ Management and Handling Rules, 2016) and subsequent amendment there-of.

Hazardous waste [Waste Oil]	Total Quantity [liters]	
	During the previous Financial year, 2018-19	During the Current financial year, 2019-20
1) From process	**NA**	**NA**
2) From Pollution Control Facility	**NA**	**NA**
3) Used Oil	**2.31 KL**	**0.6 KL**
4) Oil contaminate waste	**50 Kg**	**10 Kg**

PATRT-E

Solid Waste

	Total Quantity	
Financial Year	During the previous Financial year, 2018-19	During the current Financial year, 2019-20
(a)From process: **(Overburden and Intercalated Waste)**	**: NIL**	**NIL**
(b) From pollution control facility	: **Not Applicable**	
(c) (1) Quantity recycled or re-utilized within the unit	: **Not Applicable**	
(2) Sold	: **Not Applicable**	
(3) Disposed	**: It is used up for road making & maintenance as per approved mining plan by Indian Bereau of Mines(IBM).**	

PART-F

Please specify the characteristics (in terms of composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

- There is no such hazardous waste is being generated, other than used oil, oil contaminated waste, etc.
- Overburden waste is being used up for road maintenance purpose inside the mine.
- There is no top soil generation during the reporting period, 2019-20 as the work is confined to already broken up area only.
- Used Oil: Collection in leak proof barrels and stored in isolated yards under shed with impervious floor having secondary containment pit at the corner for the temporary storage.
- Oil contaminated cotton waste: Compacted into small packages and stored under isolated area in the yard.

PART-G

Impact of the pollution abatement measures taken on conservation of natural re-sources and on the cost of the production

- Rain water harvesting project completed in staff campus to recharge the ground water as a major step of natural conservation of water resources.
- Plantation is being carried out to retain the soil captivity as well as to increase the water holding.

PART- H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- Water sprinkling on haul roads carried out by engaging 16KL capacity of water tanker on daily basis.
- Dry fog system is provided in all screen plants for dust suppression.
- Plantation in safety zone and dump areas has been carried out.
- Check-dam, check weirs for surface run-off & silt management during monsoon season.

PART-I

Any other particulars for improving the quality of the environment

- Step towards Environmental Awareness Program, project has observed the “World Environment Day, 5th June 2019” with the plantation campaign in the area.

- Steps are also taken by the project to create awareness about water conservation, wildlife conservation etc. at nearby villages.

PHOTO

Mobile Water Tanker for dust suppression on mines haul road

Retaining wall along with Plantations at the toe of dump slopes

Safety Zone Plantation

Check Weir

Settling cum water harvesting pit

STP for treatment of Domestic Waste Water

Roof top Rain Water Harvesting structure