INDRANI PATNAIK

(MINES OWNER)

A/6, COMMERCIAL ESTATE, CIVIL TOWNSHIP, ROURKELA - 769 004

Phone : 0661-2400139, 2400014, FAX : 0661-2402226

REFERENCE: UIMM/IP/ENV/JULY/22/05 **DATE: 29.07.2022**

To
The Member Secretary
State Pollution Control Board, Orissa
Paribesh Bhawan, A/118
Nilakantha Nagar, Unit – VIII,
Bhubaneshwar – 751012

Subject: Environmental Statement of "Unchabali Iron & Mn. Mines of Smt. Indrani Patnaik located in villages(s) Unchabali & Balda, Tehsil-Barbil, Dist: Keonjhar for the year 2021-2022.

Dear Sir,

With reference to the above subject, we are herewith submitting the Environmental Statement for the financial year 2021-2022 in the Form – V as per rule – 14 under Environment (Protection) Rules, 1986 in respect of Unchabali Iron & Mn. Mines of Smt. Indrani Patnaik.

This is for your kind information, please.

Thanking You,

For **Unchabali Iron & Mn. Ore Mines of Smt. Indrani Patnaik**

29/7/22

Authorized Signatory

Mines Manager
Unchabali Iron & Mn. Mines
Indrani Patnaik
Mahapanwal

Encl: As Above

Copy to: The Regional Officer, SPCB, Regional Office, College Road, Dist: Keonjhar, Odisha.

W.O. Boneikela, Joda, Dist. : Keonjhar - 758034, Ph. : 06767-273448, 272304, Fax : 06767-272304

[FORM-V]
(See Rule 14)
Environment Statement for the financial year ending the 31st March 2022

PART-A

(1)Name and address of the owner / Occupier of the industry,	-	Unchabali Iron & Mn. Ore Mines Smt. Indrani Patnaik
Operation or process	-	At- Unchabali, P.O: Bamebari Dist. Keonjhar, Orissa -758034. Email:ags@altradegroup.com Contact no: 9437062184
(2) Industry category Primary	-	(STC CODE) Secondary-(SIC Code)
(3)Production capacity Units	-	4.0 MTPA
(4)Year of establishment	-	20 May 2008 (year of commencement)
(5)Date of the last Environmental Statement Submitted	-	19.06.2021

PART-B

Water and Raw material Consumption:

(1)Water Consumption m^3/day	-	1175 m^3/ Day
Process	-	972 m^3/ Day
Cooling (Water sprinkling on Haul roads)	-	190 m^3/ Day
Domestic (Drinking purpose)	-	13 m^3/ Day

Name of Product	Process water consumption per unit of output
Sized Iron Ore	NA

	During the previous Financial year	during the current financial year
	(1)	(2)
(1)		
(2)		
(3)		

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 material	Consumption of raw per unit of out put
	During the previous Financial Year	during the current 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)

A) Water:

(Parameter as specified in the consent issued)			
Pollutants	Quantity of Pollutants Discharged (Mass / day)	Conc. of Pollutants Discharged (Mass / Volume)	% of variation from prescribed standard with reasons
Water (ETP Discharge) 1 M^3/Day			
pH	NA	6.93	Within the Range
TSS	0.0632kg /day	39.80 mg/ lit	20.40 % below the norm
Oil & Grease	0.0004 kg /day	4.20 mg/ lit	95.80 % below the norm
Water (S.T.P Discharge) 10 M^3 / D			
pH	NA	7.26	Within the Range
T.S.S	0.1120 kg/day	11.20 mg/ lit	88.80 % below the norm
B.O.D	0.0596 kg/day	5.96 mg/ lit	80.13 % below the norm
Mines Surface runoff water Quality Report			
pH	NA	7.05	Within the Range
T.S.S	116.06 kg /day	24.0 mg/ lit	76.00 % below the norm
Oil & Grease	8.22 kg / day	1.70 mg/ lit	83.00 % below the norm

Air: Not Applicable

Note: Present there is no such trade effluent and source of emissions from current mines operation methodology.

PART – D
Hazardous Wastes

(As specified under Hazardous Waste/ Management and Handling Rules, 1986)

Hazardous waste [Waste Oil]	Total Quantity [KL]	
	During the previous Financial year	During the Current financial year
1) From process	NA	NA
2) From Pollution Control FACILITY	NA	NA
3) Used Oil	15.16 KL	33.30 KL
4) Oil contaminate waste	0.120 TON	0.110 TON

PATRT-E
Solid Waste

		Total Quantity	
		During the previous Financial year	during the current financial year
(a)From process:			
(Overburden and Intercalated Waste)	:	5132818(T)	4240920(T)
(b) From pollution control facility	:	NIL	Nil
(c) (1) Quantity recycled or re-utilized Within the unit	:	Nil	Nil
(2) Sold	:	Nil	Nil
(3) Disposed	:	Kept in within ML area	

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.

- The used oil generation is stored at an earmarked area and the same is disposed to authorized recycler in a proper manner.
- The used led batteries are kept at an earmarked area in a proper manner, which is later disposed to an authorized recycler through buy-back system.
- The generation of OB & Intercalated waste is dumped in earmarked area as per approved mining plan & scheme with following mitigate measures such as proper sloping, terracing, and toe retention wall & garland drainage. Further, to avoid the dump erosion surface area of the dump was muted with Plantation & Geo textile applications along with local grass seeds.

PART-G

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

- The roof top rain water harvesting has been implemented at site employee's camp & Unchabali Village School in the direction of natural conservation of water resources.
- The massive plantation has been done at mines dump, safety zone and local villages.
- The top soil is stored in a proper manner and the same has been utilized for plantation and camp garden.
- Coir matting, retaining wall, garland drainage and check dam are provided to mines dump and soil erosion areas.
- Check dams & check wears are provided at the toe of the miens.

PART-H

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

- 2.5 KM automatic fixed sprinkler has been implemented for mines dispatch road dust suppression.
- Three no. of 25 KL capacity mobile water tanker has engaged for mines haul road dust suppression.
- Three numbers of 8 KL mobile water tanker have been engaged for village road dust suppression
- Effective dry fog system has been implemented in all the crusher and screen plant
- Rain water harvesting plant has been implemented at employees camp to increase the water table
- Rain water harvesting has been implemented at village Unchabali school to increase the water table
- Dust extraction and wetting process are being used for drilling process
- STP plant implemented at camp to treat the sewage water and the treated water is utilized for plantation & garden watering.
- ETP plant has been implemented at mines service center and the treated water is utilized for plantation and & garden watering.
- Plantation in safety zone, school area, camp areas and dump areas
- Coir matting and mixed grass application over dumps for better stabilization
- Check-dam for silt control in surface run-off from mines area.

PART-I

Any other particulars for improving the quality of the environment

1) Regular awareness program is given to the company employees, local villagers and school children towards environment and pollution.
2) The world environmental day, forest day, earth day, safety day & wild life week has being celebrated regularly along with school children's & company employee's , the celebration was followed through environmental awareness program.

PHOTOS: