INDRANI PATNAIK
(MINES OWNER)

A/6, COMMERCIAL ESTATE, CIVIL TOWNSHIP, ROURKELA-769 004
Phone : 0661-2400139, 2400014, Fax : 0661-2402226

Reference: IP/MM/July/-13/16

Date: 08.07.2013

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

Sub: **Environmental Statment of "Unchbali Iron & Mn. Mines of Smt. Indrani Patnaik" located in villages(s) Unchabali & Balda, Tehsil-Barbil, Dist: Keonjhar for the year ending March 2013.**

Dear Sir,

We are herewith submitting the "Environmental Statement for the financial year ending of March 2013" in the form – V as per rule – 14 under Environment (protection) Rules, 1986.

This is for your kind information, Please.

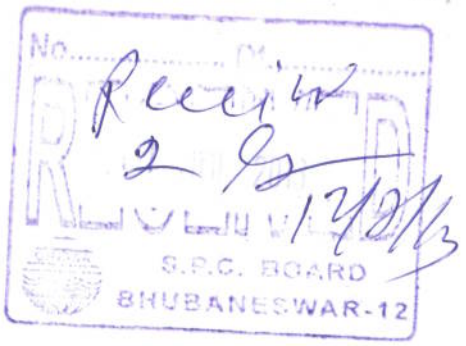
Thanking You,

Yours Faithfully
For Unchabali Iron & Mn. Ore Mines
Smt. Indrani Patnaik

Bibhuti Behera.
Mines Manager

Mines Manager
Unchabali Iron & Mn. Mines
M/s Indrani Patnaik
Mahapanvath

Copy to: **The Regional Officer,**
SPCB, Orissa
Regional Office, College Road,
Dist: Keonjhar, Orissa



[FORM-V]

(See Rule 14)

Environment Statement for the financial year ending the 31st March 2013

PART-A

(1) Name and address of the owner / Occupier of the industry, Operation or process:	-	**Unchabali Iron & Mn. Ore Mines** **M/S Indrani Patnaik** **Site Office: M/S Indrani Patnaik Iron Ore Mines,** **Dist. Keonjhar, Orissa -758 034.** **Tele fax; 06767-272657,** **Email:ags@altradegroup.com**
(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	-	**24.09.2012**

PART-B

Water and Raw material Consumption:

(1)Water Consumption m^3/day	-	**1175 m^3/ Day**
Process **(Mineral Beneficiation)**	-	**1125 m^3/ Day**
Cooling **(Water sprinkling, dry fog system)**	-	**140 m^3/ Day**
Domestic **(Drinking purpose)**	-	**10 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	Consumption of raw material 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 (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	Norms
Water (ETP Discharge) 1 M^3/Day				
pH	NA	6.74	Within the Range	5.5-9
TSS	0.073 kg /day	73.00 mg/ lit	27.00 % below the norm	100
Oil & Grease	0.00254 kg /day	2.55 mg/ lit	74.52 % below the norm	10
Water (S.T.P Discharge) 10 M^3 / D				
pH	NA	6.70	Within the Range	5.5-9
T.S.S	1.28 kg /day	121.50 mg/ lit	36.25 % below the norm	200
B.O.D	0.10 kg / day	0.018 mg/ lit	98.18 % below the norm	200
Mines Surface runoff water Quality Report				
pH	NA	6.63	Within the Range	5.5-9
T.S.S	20.87 kg /day	62.67 mg/ lit	37.33 % below the norm	100
Oil & Grease	1.32 kg / day	3.97 mg/ lit	60.33 % below the norm	10

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, 1986)

Hazardous waste [Waste Oil]	Total Quantity [liters]	
	During the previous Financial year : **2011-12**	During the Current financial year **: 2012-13**
1) From process	**NA**	**NA**
2) From Pollution Control FACILITY	**NA**	**NA**
3) Used Oil	**4.2 KL**	**25.69 KL**
4) Oil contaminate waste	**……**	**450 KG**

PATRT-E

Solid Waste

	Total Quantity	
Financial Year	During the previous Financial year: **2011-12**	During the current Financial year: **2012-13**
(a)From process: **(Overburden and Intercalated Waste)**	**: 94500 MT**	**NIL**
(b) From pollution control facility	: **Not Applicable**	
(c)		
(1) Quantity recycled or re-utilized within the unit	**: Nil**	
(2) Sold	**: Nil**	
(3) Disposed	: **It is dumped at ear marked areas of the Mines**	

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 lead batteries are kept at an earmarked area in a proper manner, which is later disposed to an authorized recycler through buy-back system.
- There is no such type of solid waste generation in the reporting financial year and the existing solid waste(Overburden) being disposed at ear marked area inside the mine by following the

proper sloping, terracing method. Further development of vegetation with plantation is being practiced using coir-geo textiles along with mixed grass at critical areas.

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.
- Coir matting, retaining wall, garland drainage and check dam are provided to mines dump and soil erosion areas.

PART-H

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

- 3.2 KM automatic fixed sprinkler has been implemented for mines dispatch road dust suppression.
- One 35 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, 2012 " has celebrated along with school children's along with company employee's and the celebration was followed through environmental awareness program.