

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR39/BBS

Mine code : 300RI08035

- (i) Name of the Inspecting : **AR**) **SHRI PREM PRAKASH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Mr. Naveen Shrivastava :Mr. Sanjay Kumar Bhuyan, Geolo
Official with
Designation
- (iv) Date of Inspection : 22/05/2015
- (v) Prev.inspection date : 18/08/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KATAMATI**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : KEONJHAR
Village : KATAMATI
Taluka : BARBIL
Post office : DEOJHAR
Pin Code :
FAX No. : 916596, 33706
E-mail : rsgarbi@noa.tatasteel.com, l
Phone : 916596, 33734
- (e) Police Station :
- (f) First opening date : 01/05/1934
2. Address for : VILL. KATAMATI
correspondance P.S JODA
DIST.KEONJHAR.PIN: 758034
3. (a) Lease Number : ORI0107
(b) Lease area : 403.32
(c) Period of lease : 20
(d) Date of Expiry : 16/01/2003
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : TISCO
 Bombay House 24, Homy Mody
 Street Mumbai MUMBAI
 (SUBURBAN) MAHARASHTRA
 Phone:
 FAX :

Owner : TISCO
 24, HOMI MODY STREET FORT
 MUMBAI-1 GREATER BOMBAY
 MAHARASHTRA
 Phone:
 FAX :

Agent : O.P.MISHRA
 JODA EAST IRON MINES
 VILL/PO-JODA DIST-KEONJHAR
 KEONJHAR ORISSA
 Phone: 0657-424401
 FAX : 0657-425847

Mining Engineer

Name : R.N.JENA, Full Time
 Qualification : DIPLOMA MINING, IST CLASS COMPETANCY
 Appointment/ : 06/09/2002
 Termination date

Geologist

Name : S.K.PANDEY, Part Time
 Qualification : MSC GEOLOGY
 Appointment/ : 01/04/2001
 Termination date

Geologist

Name : INDRANI SAHA, Full Time
 Qualification : MSC TECH , PHD
 Appointment/ : 10/07/2002
 Termination date

Manager

Name : R.S.GARBYAL
 Qualification : M.TECH(COMPUTER), FIRST CLASS MANAGER CER
 Appointment/ : 01/05/2001
 Termination date

6. Date of approval of Mining :
 Plan/Scheme of Mining**PART - II : TECHNICAL DETAILS/COMMENTS****1. Details about Average employment :**

Maximum number of persons employed on any day during the year

Employment category	No.of employment	Av. yearly working days
DIRECT		

Managerial	11	310
Supervisory	8	310
Workers	59	310
Ministrial	8	310
CONTRACT		
Plant	26	310
Others	39	310

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

Action during the year	Expenditure in Rs. Lakhs for				Remarks
	previous year		current year		
	Proposed	Incurred	Proposed	Incurred	
General					
Water supply	20.00	16.50	20.00	0.00	3000 people
Health	12.00	11.00	15.00	0.00	
Sub total	32.00	27.50	35.00	0.00	
Infrastructure					
Sub total			27.50		
Training	81.00	64.00	66.50	0.00	
Recreation	4.00	6.00	3.50	0.00	
Others	95.50	91.00	53.80	0.00	
Sports activities	6.00	18.00	6.00	0.00	
Total	218.50	214.00	157.30	0.00	

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

After last inspection on 18.08.2014, No Violation was pointed out.

During current inspection, Violation of rule 13(1) was observed and being communicated to the party.

4. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988, if recommended.

Not being recommended at present

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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A. Exploration (Rule 13)

a.Type of prospecting : drilling,
and exploration i.e. 10BHS,
pitting, drilling

b.Total area covered : 10 ha

10 BHS,

10 ha

B. Working (Rule 13)

c.Ore to waste ratio : 1:0.21
pit wise if possible
otherwise for mine

b.Bench : Width:25m
size(LxWxH)length can Height: 12m
be defined as Regular
regular/irregular

a.Number and size of : 2 Pits
each pit (LxWxH)

d.Total area covered : Not specified
under excavation/pits for a year

1:0.29

Width:25m
Height: 12m
Regular

01 Pit

About 73 ha

For Eastern Pit
only
(ROM/(SG+Waste
Average for all
benches

cummulative

C. Waste disposal (Rule 13)

a.Location of dumps : Dump No. 2

b.Method of dumping : Retreating
whether
advancing/retreat

c.Total area covered : Not specified for
under waste dump. a year

d.No.and size of each : Dump 2:
waste dump with No of 330x170, 1 steps
steps/lift/bench

e.Yearly generation : 0.53 Mill. Tons
of waste quantity.

Dump No. 2

Retreating

About 1.2 ha

Dump 2:
100x150, 2 steps

0.8 mill. Tons

RESERVE POSITION AS ON 01/04/2015**PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015**

Mineral	Production	Unit
IRON ORE	3.3	MT

6. Conservation of Mineral - both quantitative and qualitative**Beneficiation (Rule 20 and 26)**

- Efforts for improving low grade and sub grade mineral. : Blast hole sampling and chemical analysis of the same is done before blasting which enables in knowing the grade of the material which is then used for deciding the blended feed to plant
- Efforts for improving percentage of recovery of ore. : Hydrocyclone & jigging plant is introduced at Noamundi Processing plant to improve recovery of iron values from fines. As with the use of this technology ore with higher impurity like alumina can be used in the feed instead of reporting in mineral reject.

Mineral Rule 15

- Percentage of recovery of ore : About 77% wrt total material)
pitwise w.r.t. ROM and total material
- Number of benches in ore and waste. : waste-0, Ore-8

Sub/grd mineral/fines (Rule16)

- Qty of yearly generation and total qty available during inspection with grade : 346500 te (mineral reject)
In 2014-15
- Number and size of each stack : 451m x 408m, 4 steps
- Location of stacking. : 11650E to 12275E and 9850N
to 10300N
- Separate stacking from waste : Separate Subgrade Dump is maintained (Dump 3)
- Total area covered for stacking : 7.8 ha

Exploration data as on 31/03/ 2015

No. of Boreholes	No. of Pits	No. of Trenches
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OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015**Utilisation of Sub Grade Mineral and Mineral Rejects**

Generated	Utilised	Stacked	(In Ton.)
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7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : Hilly & undulating
- b. Aesthetic environment : ok, A Garden is developed in front of Katamati Pit office.
- c. Soil and land use pattern : Top soil is stored separately & subsequently used for plantation.
- d. Agriculture : No Agriculture land within the lease
- e. Forest(flora and fauna) : common species
- f. Vegetation : Plantation is carried out to improve vegetation.
- h. Public building, places and monuments (protected, historical), places of worship and places of tourist : No monuments within lease.

B Water environment.

- b. Ground water : Ground Water table not intercepted due to opencast working.
Ground water testing is carried out regularly & all the parameters have been found well within the limit.
- c. Quality of water : The water quality is monitored regularly and the parameters are within the prescribed limit.

C. Air environment

- a. Noise : : Monitoring is done regularly & noise levels are found well within the limit.
- b. Air : water sprinkling is done on haul roads , the air quality is monitored regularly the parameters are within the prescribed limit.
- c. Climatic condition : sub-tropical.

D. Socio economic environment

- a. Social and demographic profile. : There is no colony within the lease, though all the employees are residing in the colony located at Noamundi Iron Mine adjacent to Katamati & belonging to Tata Steel only. Within the colony there is presence of people of different region and religion and of varied demographic.
- c. Human settlement : Not Within the ML area.
- d. Recreational facility. : recreational facilities being provided for the employees like parks, garden, club, fountain park etc in the colony.

7.1 Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

<u>Water Management</u>				
Season	Station type	Station name	Parameter	Value Actual Excess

<u>Air data for excess parameters</u>				
Season	Station name	Type of area	Parameter	Value Actual Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u>		<u>2014 - 2015</u>	Area in Hect.
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<u>TOP SOIL MANAGEMENT</u>	
Quantity as on 31/03/2015	

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

A. R. 2014-15 has not been submitted till the date of inspection; due date of submission is up to 1st july'2015.

Scrutiny of AR 2013-14 was carried out during last inspection on 18.08.2014.

PART - III : PERFORMANCE OF MINE OWNER

(In case of lease expiring within 2 years - as per guidelines)

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

Nil

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

A copy of violation letter is being endorsed to Director of mines, Odisha.

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

Nil

Date :

(SHRI PREM PRAKASH)

Indian Bureau of Mines