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: 25) SHRI IBRAHIM SARIF

Officer and ID No.

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine : Mr. Ajay Kumar Thakur and Mr. Rajesh Mukherjee,

Official with Designation

(iv) Date of Inspection : 08/03/2016
(v) Prev.inspection date : 22/05/2015

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, |

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 : ORIO107
(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	13	313
Supervisory	3	313
Workers	55	313
Ministrial	13	313
CONTRACT		
Plant	24	313
Others	46	313

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

Action during the year	Exp	enditure in R	s. Lakhs for		Remarks
	previo	us year current year			
	Proposed	Incurred	Proposed	Incurred	
General Water supply	20.00	16.50	20.00	25.04	1010 housae hol
Medical facility	12.00	11.00	15.00	14.60	13000 cases trea
Sub total Infrastructure	32.00	27.50	35.00	39.64	
Sub total			27.50		
Others	62.50	64.00	50.80	33.30	380 farmers
Recreation	4.00	6.00	3.50	15.00	
Training	60.00	50.00	46.50	20.15	893 Students ben
Total	158.50	155.00	128.30	108.09	

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

There was no outstanding violaions.

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, 19888, if recommended.

Not Recommended

5.

Items	Proposal	Actual work done	Remarks
. Exploration (Rule 13)			<u>I</u>
<pre>a.Type of prospecting: and exploration i.e. pitting, drilling</pre>	15 nos.	Nil	
3. Working (Rule 13)			
a.Number and size of: each pit (LxWxH)	one no.	one no. 980m × 820 m	
size(LxWxH)length can	Width:25m Height: 12m Regular	Width:25m Height: 12m Regular	
<pre>c.Ore to waste ratio : pit wise if possible otherwise for mine</pre>	0.20	0.22	
<pre>d.Total area covered : under excavation/pits</pre>	73.04 На	73.04 На	
C. Waste disposal (Rule	13)		
a.Location of dumps :	Dump-2	Dump-2	
e.Yearly generation : of waste quantity.	560000 Tonnes	525600 Tonnes	
<pre>b.Method of dumping : whether advancing/retreat</pre>	Retreating	Retreating	
<pre>c.Total area covered : under waste dump.</pre>	7.37 Ha	1.16 На	
<pre>d.No.and size of each : waste dump with No of steps/lift/bench</pre>		one dump, 100 X 150, in two steps	
D. Production			
	2014-15 : 7500000 Tonnes 2015-16 : 8000000 Tonnes	2014-15 : 33000000 Tonnes 2015-16 : 3310000 Tonnes	
D. Reserve			
a.Reserve position as: per latest MP/MS and at the time of inspection.		Classification Quantity Grade Total Mineral Resources(A+B) 104.95 Fe >58% A. Mineral Reserve Fe >58% (1) Proved Mineral Reserve (111) 44.05	

(2) Probable Mineral
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44.01 B. Remaining Resources Fe >58% (1)Feasibility Mineral Resource (211) 7.39 (2)Pre-feasibility Mineral Resource (221 & 222) 3.43 (3)Measured Mineral Resource (331) -(4) Indicated Mineral Resource(332) -(5)Inferred Mineral Resource (333) 6.07 (6)Reconnaissance Mineral Resource (334) -

RESERVE POSITION AS ON 01/04/2015

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	44050000	+58% Fe
Probable	44010000	+58% Fe
Possible	16890000	+58% Fe
Total	104950000	+58% Fe

	PRODUCTION FOR THE PREVIOUS YEAR	2014 - 2015
Mineral	Production Unit	
IRON ORE	3531982 TON	

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6. Conservation of Mineral - both quantitative and qualitative

Beneficiation (Rule 20 and 26)

Efforts for improving low grade and sub grade mineral. : Hydrocyclone and Jigging plant is introdued in another adjacent area at Noamundi to improve recovery of Iron values from fines.

Minearl Rule 15

Number of benches in ore and : Ore: 9 nos, waste.

Waste: 1 no.

Sub/grd mineral/fines (Rule16)

total qty available during

Qty of yearly generation and : 343300 Tonnes was generated during 2015-16. available

as on date: 6322677

inspection with grade

Total area covered for stacking

: 7.8 Ha

Separate stacking from waste : Yes Dump no. 3

: 11650E to 12275E and 9850 N to 10300 N Location of stacking.

Exploration data as on 31/03/ 2015

No. of Boreholes

No. of Pits

No. of Trenches

164

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overbuden/waste removed (in m3): 5256000

Utilisation of Sub Grade Mineral and Mineral Rejects

Generated

Utilised

Stacked

(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

c. Soil and land use pattern

: Parks & Gardens are developed in and around the lease area to improve the aesthetic of the area. Like Garden in

d. Agriculture

: No agricultural land within lease area

front of Katamati Pit office, etc.

- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist
- : No

B Water environment.

- b. Ground water
- : Mining operations have not intercepted ground water table.
- c. Quality of water
- : potable

C. Air environment

a. Noise

: Regular monitoring is being carried out and parameters are within permissible limit

b. Air

: Wet drilling is practices, regular water sprinkling is done on haul roads , dry fog system is used in primary & at all transfer points in the plant to control dust generation. The air quality is monitored regularly and all the parameters are well within the limit.

D. Socio economic environment

- a. Social and demographic profile.
- : The lessee is spending substantial amount through its Tata Steel Rural Development Society for peripheral developments such as education, health, sports, afforestation etc. Further, the expansion activities will also generate immense employment for local population. Hence the benefits to the community and its economy because of this project are quite appreciable.
- safety.
- b. Recommending health and : OHSAS-18001 system is in place and hence OHS aspect are taken care.
- c. Human settlement
- : Within the ML area there is a no human settlement.
- d. Recreational facility.
- : Recreational facilities being provided for the employees like parks, garden, club, fountain park etc. in the colony located at Noamundi.

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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.

		Water Management		Value
Season	Station type	Station name	Parameter	Actual Excess

		Air data for excess parameters	
			Value
Season	Station name	Type of area	Parameter $\overline{ ext{Actual}}$ Excess

	PLANTATION	DURING THE PREVI	OUS YEAR	2014 - 2015	
					Area in Hect.
	Within lease a	area		Outside lease	area
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate
.69	1720	80	.5	2068	60

TOP SOIL MANAGEMENT
Quantity as on 31/03/2015

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

- a) Production:2014-15 33.01 Lakh tonnes
- b) Cost of operation Rs 795.89 per ton
- c) Pit's Mouth Value Rs 795.89 per ton
- d) Reserves 88.06 million tonnes (as on 1.04.2015)
- e) Stock at Mines head 2.88 Lakh tonnes
- f) Land Use

Lease area (surface area) Under Outside Total utilisation as on 01.04.2015(hectares):forest forest

- (i) Covered under current 17.6022 55.4426 73.0448
- (O/C) Workings
- (ii) Used for waste, slime, 5.1434 38.1175 43.2609
- (iii) Occupied by plant,

buildings, residential, 8.4335 11.5049 19.9384

welfare buildings & roads

(iv) Used for Storage of - 0.9740 0.9740

mineral)

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.)

None

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

None

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

None

Date:

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines