INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/SNG/MCDTR-6/BBS

Mine code : 400RI13015

- (i) Name of the Inspecting : 25) SHRI IBRAHIM SARIF Officer and ID No.
 (ii) Designation : Assistant Controller Mine
 (iii) Accompaning mine Official with Designation
 (iv) Date of Inspection : 09/08/2015
- (v) Prev.inspection date : 16/09/2014

PART-I : GENERAL INFORMATION

1.	(a)	Mine Name	:	MALDA
	(b)			A Other than Fully Mech.
	(C)	Type of Working	:	Opencast
	(d)	Postal address		
		State	:	ORISSA
		District	:	SUNDARGARH
		Village	:	MALDA(BONAI)
		Taluka	:	KOIRA
		Post office	:	MALDA-VIA-JODA
		Pin Code	:	
		FAX No.	:	06767-272971
		E-mail	:	ashishkumar@tatasteel.com
		Phone	:	06767-272971/ 9437577041
	(e)	Police Station	:	MALDA
	(f)	First opening date	:	01/04/1935
2.	Addr	ess for	:	VILL-MALDA
	corr	espondance		PO-CHORMALDA
				DIST-SUNDERGARH
3.	(a)	Lease Number	:	: ORI0207
	(b)	Lease area	:	: 822
	(c)	Period of lease	:	: 20
	(d)	Date of Expiry		: 12/08/1990
4.	Mine	ral worked	:	MANGANESE ORE Main

5.	Name and Address of	the		
	Lessee	:	TISCO	
			Bombay House 24, Homy Mody	
			Street Mumbai MUMBAI	
			(SUBURBAN) MAHARASHTRA	
			Phone:	
			FAX :	
	Owner	:	A.N.SINGH	
			C/O TISCO LTD SINGHBHUM	
			(EAST) JHARKHAND	
			Phone: 0657-431227	
			FAX :	
	Agent	:	SHRI SATYABADI SAHU, HEAD (MN GROUP OF MINES)	1
	-		AT/PO: BICHAKUNDI M/S TATA	
			STEEL LTD. DIST: KEONJHAR,	
			ORISSA KEONJHAR ORISSA	
			Phone:	
			FAX : 06767-272971	
	Geologist			
	Name		shri rookam bhagabati,Full Time	
	Qualification		M.Sc. APPLIED GEOLOGY	
	Appointment/ Termination da	: ite		
	Manager	_		
	Name Qualification			
	Appointment/		14/10/2008	
	Termination da		11, 10, 2000	
	Manager			
	Name	:	SHRI ASHISH KUMAR	
	Qualification	:		
	Appointment/	:		
	Termination da	ite		
б.	Date of approval of		ng : 06/04/2015	
	Plan/Scheme of Minin	ıg		
		PZ	RT - II : TECHNICAL DETAILS/COMMENTS	
:	1. Details about Ave:	rage	employment :	
	Maximum number o	f pe	rsons employed on any day during the year	
1	Employment category		No.of employment Av. yearly worki	ng davs
-	DIRECT			J] -
	Managerial		2	309
	Supervisory		4	309
	Others		11	309
	Ministrial		1	309
	CONTRACT			

CONTRACT

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towords socio-economic development.								
Action during the year	Exp	Remarks						
	previous year		current year					
	Proposed	Incurred	Proposed	Incurred				
General Infrastructur s ub total								
Sub total								
Total								

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

THERE WAS NO OUTSTANDING VIOLATION. DURING CURRENT INSPECTION VIOLATION OF RULE 13(1) WAS POINTED OUT TO THE PARTY VIDE THIS OFFICE LETTER DATED16/11/2015.

 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 AT PRESENT

5. Scientific Mining

Scientific Mining			
Items	Proposal	Actual work done	Remarks
A. Exploration (Rule 13)			
a.Type of prospecting : and exploration i.e. pitting, drilling		Nil	
B. Working (Rule 13)			
a.Number and size of : each pit (LxWxH)		X 62 M (RB QUARRY) BLOCK II: 200 M X 200 M X 38 M BLOCK III : 366 M X 250 M X 54 M BLOCK IV : 308 M X 303 M	MINING OPERATION HAS BEEN STOPPED SINCE 25.02.2011 BY DFO, BONAI FOR WANT OF FOREST CLEARANCE.
<pre>b.Bench : size(LxWxH)length can be defined as regular/irregular</pre>		IRREGULAR LENGTH WITH 6- 8 M MINIMUM WIDTH AND 6- 8 M MAXIMUM HEIGHT.	
d.Total area covered : under excavation/pits		42.25 HA OF FOUR PITS DEVELOPED.	
C. Waste disposal (Rule 1	L3)		
a.Location of dumps :		FOUR NUMBER OF DUMPS IN EACH BLOCK	
d.No.and size of each : waste dump with No of steps/lift/bench		DUMP BLOCK I: 340 M X 263M X 50 M (3 LIFTS OF 20 M APPROX) DUMP BLOCK II: 166M X 100 M X 29 M (2 LIFTS) DUMP BLOCK III: 353 M X 200 M X 28 M (2 LIFTS OF 25 M APPROX) DUMP BLOCK IV : 241 M X 165 M X 38 M	
c.Total area covered :		21.316 HA	
under waste dump. D. Production			
b.Year wise : production of last five year.			ON THE DATE OF INSPECTION MINE WAS CLOSED SINCE 25.02.2011.
D. Reserve			

a.Reserve position as : per latest MP/MS and at the time of inspection. RESERVE POSITION AS ON 01.04.2014 AS PER MINING PLAN APPROVED ON 11.11.2010 VALID UPTO 2014-15 IS AS FOLLOWS: PROVED (111) : 1124008 MT PROBABLA (121 + 122) : 1210820 MT INDICATED (332) : 170000 MT INFERRED (333) : 3470000 MT

RESERVE POSITION AS ON 01/04/2015

MANGANESE ORE	3	
Category	Quantity in Tonnes	Grade
Proved	1124008	AS PER UNFC
Probable	1210820	AS PER UNFC
Possible	170000	AS PER UNFC 332 BESIDES ABOVE ANOTHER 3470000 TC
Total	2504828	
	PRODUCTION	FOR THE PREVIOUS YEAR 2014 - 2015
Mineral		Production Unit
MANGANES	E ORE	0 TON

(In Ton.)

6. Conservation of Mineral - both quantitative and qualitative

Generated

Beneficiation (Rule 20 and 26)

Efforts for improving low : THE LOW GRADE ORE WERE CONSIDERED AS PRODUCT grade and sub grade mineral. WERE SOLD. THE SUB-GRADE ORE IN THE COURSE O WERE STORED SEPARATELY FOR FUTURE USE.								
Minearl Rule 15	Minearl Rule 15							
Number of benches in ore and waste. Sub/grd mineral/fines (Rule16)	: NUMBER ORE OF BENCHES 3	WASTE 7						
Number and size of each stack	: 2 STACKS, ANE ABOUT 1.5 HA AND	THE OTHER 1.0 HA						
Qty of yearly generation and total qty available during inspection with grade	: MINING OPERATION HAS BEEN STOP 25.02.2011.HOWEVER CUMULATIVE HAVING MN CONTENT LESS THAN 15 INSPECTION.	QUANTITY IS 48805 CUM						
Location of stacking.	: AT THE ENTRY OF THE ML							
Separate stacking from waste : YES								
Total area covered for : 2.5 HA APPROX stacking								
Exploration data as on 31/03/ 2015								
No. of Boreholes	No. of Pits	No. of Trenches						
641								
OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015Overbuden/waste removed (in m3) :0								
Utilisation of Sub Grade Mineral and Mineral Rejects								

Utilised

Stacked

7. Environment Management - both quantitative and qualitativ

A. Land environment

	a. Landscape.	:	THE MINING LEASE AREA IS UNDULATING TERRAIN.
	b. Aesthetic environment	:	AESTHETIC BEAUTY HAS BEEN TAKEN CARE OF BY WELL PLANNED PLANTATION INSIDE AND OUT SIDE THE LEASE.
	c. Soil and land use pattern	:	TOP SOIL WHENEVER GENERATED WERE BEING UTILISED FOR VARIOUS CIVIL WORKS, PLANTATION ETC. 70% OF TOTAL ML AREA IS FOREST LAND . 53% OF THE TOTAL LEASE AREA IS MINERALISED AND 88% OF THE MINERALISED AREA FOR MN ORE IS IN FOREST LAND AREA UTILES FOR PIT : 42.25 HA WASTE DISPOSAL : 21.316 HA MINERAL STACK YARD ; 2.5 HA APPROX
	d. Agriculture	:	FEW SCATTERED UNORGANISED CULTIVATION / AGRICULTURAL LAND WAS THERE IN THE BUFFER ZONE OVER AN AREA 74.174 HA AROUND 9.02 % OF THE TOTAL LEASE. THE MINING OPERATION DOES NOT AFFECT ANY AGRICULTURAL LAND.
	e. Forest(flora and fauna)	:	THE FOREST AREA COVERED OVER 578.859 HA WITH THIN VEGETATION. FAUNA LIKE JACKAL, WOLF, BAT SQUIRREL ARE FOUND IN THE AREA.
	f. Vegetation	:	THE AREA IS MODERATELY VEGETATED.
	h. Public building, places and monuments (protected, historical), placec of worship and places of tourist	:	NO SUCH BUILDING EXIST IN THE LEASE AREA EXCEPT ONE TEMPLE IS LOCATED NEAR THE COLONY AT A DISTANCE OF NEARLY 4 KM FROM THE ACTIVE MINING AREA.
в	Water environment.		
	a. Surface water	:	KUNDRA NALLA FLOWS IN THE NORTH EAST PART OF THE ML. THE SURFACE WATER FLOWS NATURAL DRAINAGE, NOT AFFECTED MUCH BY MINING.
	c. Quality of water	:	THERE IS NO ADVERSE EFFECT OF WATER QUALITY DUE TO ON-GOING MINING ACTIVITY.
	b. Ground water	:	NONE OF THE MINING PITS DUG TILL DATE HAS SHOWN INTERSECTION WITH WATER TABLE.
c.	Air environment		
	a. Noise	:	WITHIN PERMISSIBLE LIMIT
	c. Climatic condition	:	MAXIMUM TEMPAERATURE REACHES UPTO 43.8 DEGREE DURING MAY-JUNE AND MINIMUM 4.1 DEGREE DURING DECEMBER- JANUARY. DRY HOT TROPICAL TYPE CLIMATE.
D.	Socio economic environment		
	a. Social and demographic profile.	:	THERE ARE 13 VILLAGES WITHIN THE LEASE HOLD AREA. NUMBER OF HOUSE NEARLY 1100, POPULATION NEARLY 5000. CONSIST OF ST 64%, GENERAL & OBC 25% AND SC 12% Page 7 of 10

	APPROX. POPULATION DEPENDS DIRECTLY OR INDIRECTLY ON MINING ACTIVITIES.
c. Human settlement	: THERE ARE 13 VILLAGES IN THE CORE ZONE AND ALMOST 200 SMALL HAMLETS IN THE BUFFER ZONE.
b. Recommending health and safety.	: TATA STEEL RURAL DEVELOPMENT SOCIETY PUT THE CONTINUOUS EFFORT TOWARDS AWARENESS OF PEOPLE AND RENDERING THE MEDICAL SUPPORT INSIDE THE CORE AND BUFFER ZONE.
d. Recreational facility.	: STANDARD RECREATIONAL FACILITIES AVAILABLE IN THE COLONY WHICH ARE ALSO ACCESSABLE BY LOCAL VILLAGERS.

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.

		Va	lue			
Season	Station type Sta	ation name	Paramet	er 7	Actual	Excess
	<u>A:</u>	ir data for exc	ess parameters			
		_	-			'alue
Season	Station name	Ту	pe of area	Parameter	Actua	l Excess
	PLANTATION DURING	G THE PREVIOUS	YEAR 2014 - 201	15		
				A	rea in	Hect.
		OP SOIL MANAGE	/FNT			
	_					
	Qua	ntity 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.

ANNUAL RETURN FOR THE YEAR 2013-14 HAS BEEN RECEIVED. SINCE THE MINING OPERATION HAS BEEN STOPPED SINCE 25.02.2011, NO PRODUCTION DURING 2014-15. COST OF OPERATION : NIL PIT MOUTH VALUE : NIL FIXED ASSETS: Rs.39686000 /-

LAND USE: AREA EXCAVATED:81.320 HA WASTE DISPOSAL:66.740 HA. MINERAL STORAGE:32.240 HA. INFRASTRUCTURE :12.660 HA. ROADS:20.140 HA. GREEN BELT:69.730 HA. TOWN SHIP AREA:123.320 HA. STORAGE OF TOP SOIL:10 HA. **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