INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/SNG/MCDR-13/BBS Mine code : 400RI13042

(i) Name of the Inspecting : DEY) NARENDRA MOHAN DEY

Officer and ID No.

(ii) Designation : Assistant Mining Engineer

(iii) Accompaning mine :

Official with Designation

(iv) Date of Inspection : 19/09/2013
(v) Prev.inspection date : 13/05/2009

PART-I : GENERAL INFORMATION

1. (a) Mine Name : PATMUNDA

(b) Category : B Manual(c) Type of Working : Opencast

(d) Postal address

State : ORISSA
District : SUNDARGARH
Village : PATMUNDA
Taluka : BONAI
Post office : PATMUNDA

Pin Code

FAX No. : 06767 275770

E-mail :

Phone : 06767 275318

(e) Police Station :

(f) First opening date : 11/11/1996

2. Address for : VILL& PO: PATMUNDA

correspondance DIST: SUNDARGARH, ORISSA, PIN-770048

POLICE STATION: KOIRA

3. (a) Lease Number : ORIO645
(b) Lease area : 81.2
(c) Period of lease : 10

(d) Date of Expiry : 11/02/2006

4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S SUN ALLOYS AND MINERALS

P.B.NO.50 P.O.BARBIL

KEONJHAR ORISSA

Phone: 0674 530 249, 530 663, 06767-75318

FAX :0674 532016, 06767-75318

Owner : M/S SUN ALLOYS AND MINERALS

P.B.NO.54, AT P.O.BARBIL

KEONJHAR ORISSA

Phone: 0674-530249, 53 FAX: 0674-532016, 06

Mining Engineer

Name : B.MALLICK, Full Time

Qualification : DIPLOMA IN MINING ENGINEERING

Appointment/ : 02/04/1997

Termination date

Geologist

Name : P.MUKHERJEE, Full Time
Qualification : M.Sc (GEOLOGY) Ph.D

Appointment/ : 05/12/1996

Termination date

Manager

Name : B.MALLICK

Qualification : FOREMAN CERTIFICATE OF COMPETENCY

Appointment/ : 01/02/0002

Termination date

6. Date of approval of Mining : 30/03/2012

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 1
Workers 4
Supervisory 1

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2. Community Development Plan (in and around the mines): Proposed action and expenditure towords socio-economic development. Expenditure in Rs. Lakhs for Action during the year Remarks previous year current year Incurred Proposed Proposed Incurred General Housing COMMUNITY DEVELC Sub total Infrastructure Sub total Total

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

NO OUTSTANDING VIOLATION. SCHEME OF MINING HAS BEEN APPROVED ON 15.06.2012 FOR THE PERIOD 2011-12 TO 2015-16.

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.

5. Scientific Mining

Scientific Mining					
Items	Proposal	Actual work done	Remarks		
A. Exploration (Rule 13	3)				
b.Total area covered	:		MINING OPERATION CLOSED BY DFO, BONAI SINCE 22.12.2009 FOR WANT OF E C.		
B. Working (Rule 13)					
a.Number and size of each pit (LxWxH)	:	THERE ARE 4 NUMBER OS EXISTING PITS. PIT 1: 100 M X 75 M X 20M PIT 2: 136 M X 75 M X 16 M PIT 3: 55 M X 45 M X 5.2 M PIT 4: 30 M X 20 M X 4.5 M	MINE IS CLOSED SINCE 22.12.2009 BY DFO, BONAI FOR WANT OF E C.		
<pre>b.Bench size(LxWxH)length can be defined as regular/irregular</pre>	:	AVERAGE 3.00 M WIDTH AND 2.5 M HEIGHT AVERAGE IN ALL THE PITS			
<pre>d.Total area covered under excavation/pits</pre>	:	2.972 НА			
C. Waste disposal (Rule	2 13)				
a.Location of dumps	:	SOUTH EAST DUMP, NOTHTHERN SIDE DUMP AND WESTERN SIDE DUMP, ALL ARE OVER NON-MINERALISED LAND.			
c.Total area covered under waste dump.	:	SOUTH EAST DUMP : 1500 SQ M NORTHERN SIDE DUMP : 1200 SQ M AND WESTERN SIDE DUMP : 13500 SQ M.			
<pre>b.Method of dumping whether advancing/retreat</pre>	:	RETREATING			
D. Production					
b.Year wise production of last five year.	4944 TONNES, 2013-	BONAI SINCE 22.12.2009 FOR WANT OF E C. NOTICE OF DISCONTINUANCE HAS			

D. Reserve

a.Reserve position as :
per latest MP/MS and
at the time of
inspection.

RESERVE POSITION AT THE MINING
TIME OF INSPECTION AS OPERAT:
PER LATEST SCHEME OF BEEN CI
MINING APPPROVED ON DFO, BO
15.06.2012 IS AS SINCE

FOLLOWS:

PROVED (III): 172155
TONNES 25 TO 39 % MN
PROBABLE (122) 56278
TONNES 25 TO 39 % MN
POSSIBLE (333) : 83646
TONNES 10 TO 25 % MN
TOTAL : 312079 TONNES

MINING
OPERATION HAS
BEEN CLOSED BY
DFO, BONAI
SINCE
22.12.2009 FOR
WANT OF E C.

RESERVE POSITION AS ON 01/04/2013

MANGANESE (ORE	
Category	Quantity in Tonnes	Grade
Proved	172155	25.4 TO 39.5% MN AS PER UNFC 111
Probable	56278	25.4 TO 39.5 MN AS PER UNFC 122
Possible	83646	10TO 25% MN AS PER UNFC 333
Total	312079	

	PRODUCTION FOR THE PREVIOU	S YEAR	2012 - 2013
Mineral	Production	Unit	
MANGANESE ORE	0	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. : IT WAS REPORTED THAT THR SUB GRADE ORE GENERATED DUE TO MINING IS BLENDED WITH HIGH GRADE ORE BEFORE DESPATCH TO VARIOUS TO VARIOUS CONSUMING INDUSTRIES.

Minearl Rule 15

waste.

Number of benches in ore and : PIT 1: BENCHES IN ORE 3 AND WASTE 3 PIT 2: BENCHES IN ORE 3 AND WASTE 3

> PIT 3 : BENCHES IN ORE 2 AND NO BENCH IN WASTE PIT 4: BENCHES IN ORE 3 AND NO BENCH IN WASTE

Sub/grd mineral/fines (Rule16)

Number and size of each stack: SOUTH EAST DUMP: 60 M X 25 M AND HEIGHT 10 M NORTHERN SIDE DUMP : 60 M X 20 M AND HEIGHT 8 M WESTERN SIDE DUMP: 150 M X 90 M AND HEIGHT 20 M WITH 2 STEPS.

Separate stacking from waste : NO SUB GRADE STACK WAS FOUND DURING INSPECTION. IT WAS REPORTED THAT THE SUB GRADE ORE GENERATED DUE TO MINING WAS BLENDED WITH HIGH GRADE ORE BEFORE DESPATCH TO VARIOUS CONSUMING INDUSTRIES.

Exploration data as on 31/03/ 2013

No. of Boreholes

No. of Pits

No. of Trenches

41

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013

Overbuden/waste removed (in m3) :

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. : THE LEASE AREA IS UNDULATING TOPOGRAPHY.

d. Agriculture : THERE IS NO AGRICULTURE LAND INSIDE LEASE AREA

e. Forest(flora and fauna) $\;$: NO FOREST LAND INSIDE LEASE AREA, NO FOREST GROWTH .

f. Vegetation : NO PROMINENT VEGETATION OBSERVED INSIDE LEASE AREA.

B Water environment.

a. Surface water : GOOD,

C. Air environment

c. Climatic condition : VERY HOT DURING SUMMER AND VERY COLD DURING WINTER.

D. Socio economic environment

a. Social and demographic : THE LABOURERS WORKING IN THE MINE WERE MOSTLY TRIBAL

profile. AND BACKWARD.

c. Human settlement : THHERE IS NO HUMAN SETTLEMENT INSIDE LEASE AREA.

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 Manage	ement	Value
Season	Station type	Station name	Parameter	Actual Excess

		Air data for excess parameters			
					lue
Season	Station name	Type of area	Parameter	Actual	Excess

PLANTATION DURING THE PREVIOUS YEAR 2012 - 2013

Area in Hect.

TOP SOIL MANAGEMENT

Quantity as on 31/03/2013

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 2012-13 HAS BEEN RECEIVED. NO PRODUCTION.

AS THE MINING OPERATION HAS BEEN CLOSED SINCE 22.12.2009 BY DFO, BONAI FOR WANT OF EC. THOUGH CONDITIONAL EC HAS BEEN OBTAINED ON 27.12.2012, THE CONDITION HAS NOT BEEN FULFILLED BY THE LESSEE. SO THE MINE IS CLOSED SINCE THEN.

COST OF OPERATION ZERO AS MENTIONEDIN THE A R.

FIXED ASSETS: Rs.1588000 /-

PART - III : PERFORMANCE OF MINE OWNER

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

a. Compliance of terms and conditions of lease deed.

BOUNDARY PILLARS HAVE NOT BEEN CONSTRUCTED AND MAINTAINED AS PER CCOM CIRCULAR NO 2/2010 AND ITS SUBSEQUENT ADDENDUM DATED 21.09.2011.

FOREST CLEARANCE OBTAINED ON 25.04.1995 FOR ORIGINAL LEASE PERIOD.

NO FOREST LAND IN THE RML PERIOD AREA.

FOR WANT OF E C MINE WAS CLOSED BY DFO, BONAI ON 22.12.2009

CONDITIONAL E C OBTAINED ON 27.12.2012.

CONDITION HAS NOT BEEN FULFILLED YET. SO MINE IS PRESENTLY CLOSED SINCE THEN i.e 22.12.2009.

CONSENT TO OPERATE OBTAINED FROM SPCB ON 13.07.2006.

b. Compliance of the provisions of MCDR, 88 and advise given.

DURING CURRENT INSPECTION NO PROVISION OF MCDR, 88 WAS OBSERVED VIOLATED AND ADVISE WAS GIVEN TO CONSTRUCT & MAINTAIN BOUNDARY PILLARS AS PER CCOM CIRCULAR.

d. Whether the mine owner has carried out exploration and exploitation on the basis on surface mapping, pitting, trenching and core drilling taking in to consideration the mode of occurrences of mineral deposit.

THE MINE OWNER HAS CARRIED OUT EXPLORATION AS PER UNFC NORMS AS FOLLOWS:

G1 LEVEL : 5.778 HA

G2 LEVEL: 2.947 HA

G3 LEVEL : 3.800 HA

UNEXPLORED AREA: 31.007 HA,

BALANCE AREA TO BE EXPLORED AFTER OBTAINING NECESSARY STATUTORY CLEARANCES.

INITIALLY RML APPLIED ON 04.02.2005 OVER AN AREA 43.568 HA DELETING 37.629 HA.

FMCP OVER AN AREA 37.629 HA HAS BEEN APPROVED ON 30.06.2008.

SUBSEQUENTLY REVISED RML APPLIED ON 06.08.2010 OVER AN AREA 43.532 HA.

FMCP OVER AN AREA 0.036 HA (DLC FOREST AREA WITH IN THE AREA FIRST APPLIED FOR RENEWAL OVER 43.568 HA) HAS BEEN APPROVED ON 28.10.2011

h. In case leases where the mineralisation tends to exhaust within the present period, the status of closing operation in phases and the special issues including human issues to be addressed at the time of closing of mine.

THE MINERALISATION WILL NOT EXHAUST WITHIN THE PRESENT PERIOD, SO THE CLOSING OPERATION IN PHASES DOES NOT ARISE.

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

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

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

STATE GOVT. IS REQUESTED TO ENSURE FIXING OF BOUNDARY PILLARS.

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

Date :

(NARENDRA MOHAN DEY)

Indian Bureau of Mines