

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/CR/JJP/MCDR-13/BBS

Mine code : 11ORI19013

- (i) Name of the Inspecting : **AR**) **SHRI PREM PRAKASH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Mr Bachchan Kumar (SrVP Mines)/Agent &
Official with
Designation
- (iv) Date of Inspection : 21/07/2015
- (v) Prev.inspection date : 17/12/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KALIAPANI**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : ORISSA
- District : JAJPUR
- Village : KALIAPANI
- Taluka : SUKINDA
- Post office : KALIAPANI
- Pin Code : 755047
- FAX No. : 06726-224384
- E-mail : ialmines@yahoo.com
- Phone : 06726-268297,98,224274
- (e) Police Station :
- (f) First opening date : 14/09/2000
2. Address for : VILL & PO: KALIAPANI
correspondance POLICE STATION : TOMKA
DIST: JAJPUR, PIN: 755 047, ORISSA
3. (a) Lease Number : ORI0745
- (b) Lease area : 64.46
- (c) Period of lease : 30
- (d) Date of Expiry : 16/07/2030
4. Mineral worked : CHROMITE Main

5. Name and Address of the

Lessee : M/S BALASORE ALLOYS LTD.
BALAGOPALPUR - 756020
BALASORE ORISSA BALASORE
ORISSA
Phone:06782-275780
FAX :06782-27524, 275786

Owner : SANTANU MOHAPATRA
C-66, PALASAPALLI
BHUBANESWAR-20 BHUBNESHWAR
ORISSA
Phone:
FAX :

Agent : SANTANU MOHAPATRA
C-66, PALASPALLI
KHUTRDA, BHUBANESWAR-20
BHUBNESHWAR ORISSA
Phone:
FAX :

Mining Engineer

Name : S.GANGOPADHYAY, Full Time
Qualification : DIPLOMA IN MINING
Appointment/ : 07/10/2003
Termination date

Geologist

Name : S.K. ACHARYA, Full Time
Qualification : M.Sc (GEOLOGY)
Appointment/ : 14/09/2000
Termination date

Geologist

Name : M.J. RAJU, Full Time
Qualification : M.SC (TECH)
Appointment/ : 05/10/2003
Termination date

Manager

Name : D.D. GIRI
Qualification : M.Sc(MINING)
Appointment/ :
Termination date

Manager

Name : P.BARIK
Qualification : DIP IN MINING, AMIE
Appointment/ : 01/05/2003
Termination date

6. Date of approval of Mining : 27/03/2015
Plan/Scheme of Mining

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	72	245
Workers	114	242
Plant	14	251
CONTRACT		
Plant	1	251
Managerial	6	240
Workers	823	242

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					
Health	0.00	12.59	15.84	10.13	
Housing	2.00	1.54	2.54	2.00	
Sub total	2.00	14.13	18.38	12.13	
Infrastructure					
Public transport	6.25	25.71	6.75	15.82	
Sub total	6.25	25.71	14.13	15.82	
Recreation	0.00	3.09	2.90	3.42	
Environment management	6.00	3.60	0.26	9.00	
Others	0.00	11.10	5.30	37.15	
Total	14.25	61.88	29.34	77.52	

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

After last inspection on 17.12.2014, No Violation was pointed out.

During current inspection, Violation of rule 13(1) was observed and communicated to the party on dt. 12.08.2015.

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)

b.Total area covered : NA	NA		
a.Type of prospecting : 8 and exploration i.e. pitting, drilling	nil		Exploration as per SOM Completed in previous year.

B. Working (Rule 13)

b.Bench : Regular size(LxWxH)length can 12x8 be defined as regular/irregular	Regular 10x8 approx.		
a.Number and size of : No. of Pit-1 each pit (LxWxH)	No. of Pit-1		Almost as per SOM

C. Waste disposal (Rule 13)

d.No.and size of each : 03 nos. waste dump with No of steps/lift/bench	03 nos.		
c.Total area covered : Not specified for under waste dump. a year	33.3 Ha. approx.		
b.Method of dumping : Retreat whether advancing/retreat	Retreat		
e.Yearly generation : 995354 cum of waste quantity.	946681.600 cum/ 1183351 te		
a.Location of dumps : Dump-1 Dump-2 Dump-3 Location As shown over surface plan.	Dump-1 Dump-2 Dump-3 Location As shown over surface plan.		

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

Mineral	Production	Unit
CHROMITE	341052.5	TON

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

Efforts for improving low grade and sub grade mineral. : Low grade ores are being beneficiated in the COB plant installed in the mining lease area.

Efforts for improving percentage of recovery of ore. : Scientific study carried out to improve the recovery of ore by Boundary pillar mining.

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : 99% wrt ROM

Number of benches in ore and waste. : 16 benches in waste and 11 benches in ore.

Sub/grade mineral/fines (Rule 16)

Qty of yearly generation and total qty available during inspection with grade : 49588.251 t below 40% cr₂o₃ During year (2014-15)

Number and size of each stack : One No.140mX100mX6m approx..

Location of stacking. : 1073N-1116N/1289E-1402E

Separate stacking from waste : Sub grade mineral area stacked in separate stock yard.

Total area covered for stacking : 2 ha. approx..

Exploration data as on 31/03/ 2015

No. of Boreholes

No. of Pits

No. of Trenches

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015**Utilisation of Sub Grade Mineral and Mineral Rejects**GeneratedUtilisedStacked

(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : Plain & undulating
- b. Aesthetic environment : Reclamations of some degraded area is carried out by green belt development & afforestation
- c. Soil and land use pattern : No fresh area excavated so no top soil generation.
- d. Agriculture : Not within lease area.
- e. Forest(flora and fauna) : Around 2500 no of saplings has been planted on common boundary area. Medicinal plantation developed over an area of 1200 sqm. Inside ML area.
- f. Vegetation : Around 10,000 nos. of saplings has been planted on the dump slopes
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : Not within lease area.

B Water environment.

- a. Surface water : For surface water management retaining wall, garland drain followed by settling pit constructed at strategic locations. From all settling pits mechanical arrangement has been made to pump the water to ETP for treatment before discharging the same to the surface water body.
- b. Ground water : For ground water recharge roof top rain water harvesting structure has been constructed.
- c. Quality of water : regular monitoring is being carried out

C. Air environment

- a. Noise : For control of noise level, regular maintenance of vehicle is being carried out & monitoring of the noise level is being carried out in regular basis.
- b. Air : For control of air pollution, regular water sprinkling engaging water tanker & fixed sprinkler being carried out.
- c. Climatic condition : Sub-tropical

D. Socio economic environment

- a. Social and demographic profile. : Provision of community center, school buildings, drinking water to the nearby villagers.
- b. Recommending health and safety. : Subsidized canteen, medical facility, IME & PME for employees as per mines rule, vocational training to each employee, providing personal protective equipment (PPE) to all employee, arranging medical camp inside & outside ML area are reported being provided.
- c. Human settlement : Not within lease area.
- d. Recreational facility. : provision of sports goods for nearby villages is

reported

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.

- 1 .Cost of operation : 2442.04/ton
- 2.Reserve : 22.98 Million Ton
- 3.Production : 341052.5 MT (ROM)
4. Pit's Mouth Value : Not Applicable (Captive Mines)
5. Stock : 296231.596 MT of Chrome Ore & 7622.094 Concentrate Ore

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 dtd. 12.08.2015 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