

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/CR/JJP/MCDR-14/BBS

Mine code : 11ORI19015

- (i) Name of the Inspecting : **AR**) **SHRI PREM PRAKASH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S.K.Sahoo(Mines Manager)
Official with
Designation
- (iv) Date of Inspection : 22/07/2015
- (v) Prev.inspection date : 16/12/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JINDAL KALIAPANI**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : ORISSA
- District : JAJPUR
- Village : KALIAPANI
- Taluka : JAJPUR ROAD
- Post office : KALIAPANI
- Pin Code :
- FAX No. : 06726-268315
- E-mail : jindal_mines@yahoo.com
- Phone : 06726 -268315,268449
- (e) Police Station : Kaliapani
- (f) First opening date : 28/01/2002
2. Address for : POST&VIL: KALIAPANI
correspondance DIST:JAJPUR
P.S:TOMKA,ORISSA,PIN:755 047
3. (a) Lease Number : ORI0760
- (b) Lease area : 89
- (c) Period of lease : 20
- (d) Date of Expiry : 03/01/2022
4. Mineral worked : CHROMITE Main

5. Name and Address of the

Lessee : M/S JINDAL STAINLESS LTD.
KALINGA NAGAR JAJPUR
JAJPUR ORISSA
Phone:
FAX :

Owner : S S Virdi
Kalinganagar, Dangadi,
Jajpur JAJPUR ORISSA
Phone: 09777450572
FAX :

Agent : Kiran Goswami
M/S Jindal Stainless
Limited IDCO Tower, 6th
Floor, Bhubaneswar JAJPUR
ORISSA
Phone: 09938250089
FAX :

Mining Engineer

Name : S.MOHAPATRA, Full Time
Qualification : AMIE (MINING)
Appointment/ : 01/12/2002
Termination date

Geologist

Name : S.K.VAIDYA, Full Time
Qualification : MSC APPLIED GEOLOGY
Appointment/ : 12/05/2008
Termination date

Geologist

Name : P.S ACHARYA, Full Time
Qualification : M, SC (APPLIED GEOLOGY)
Appointment/ : 01/04/1995 11/05/2008
Termination date

Manager

Name : S.K. SAHOO
Qualification : Diploma IN MINING ENGINEERING, FCC
Appointment/ : 12/05/2008
Termination date

Manager

Name : V.N.DWIVEDI
Qualification : DIPLOMA IN MINING, FIRST CLASS MINES MAN
Appointment/ : 15/03/1994 12/05/2008
Termination date

6. Date of approval of Mining :
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	7	305
Plant	19	305
Workers	11	305
Supervisory	12	305
Others	4	305
CONTRACT		
Others	125	305
Supervisory	124	305
Managerial	3	305
Workers	69	305

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					
Sanitation			3.00		
Water supply	2.00	1.50	4.50		
Health	0.30	0.30	12.00	7.00	
Sub total	2.30	1.80	19.50	7.00	
Infrastructure					
Public transport	1.00	5.00	0.50	0.00	
Sub total	1.00	5.00	1.80	0.00	
Employment	132.00	132.00	126.00	33.00	
Environment management	0.40	25.00	0.30	0.10	
Recreation	1.00	5.00	3.50	0.50	
Total	136.70	186.50	132.10	40.60	

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

After last inspection on 16.12.2014, No Violation was pointed out.

During current inspection, Violation of rule 13(1) & 45(7) of MCDR,88 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, 19888, 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 : About 6000 Sq.m.
a.Type of prospecting : Drilling 400M Drilling 481M
and exploration i.e.
pitting, drilling

B. Working (Rule 13)

b.Bench : W-10m, H-6m W-10m, H-6m Almost regular,
size(LxWxH)length can but Somewhere
be defined as irregular in Q-
regular/irregular 2, reported as
old working

a.Number and size of : 02 quarries; one quarry- Q2
each pit (LxWxH) working proposed
from one quarry-
Q2 in 2014-15

c.Ore to waste ratio : 1: 8 1:8.75
pit wise if possible
otherwise for mine

d.Total area covered : Not specified for About 25 hec.
under excavation/pits a year cummulative

C. Waste disposal (Rule 13)

a.Location of dumps : Backfilling in Q-1 Backfilling in Q-1

b.Method of dumping : Advancing Advancing
whether
advancing/retreat

c.Total area covered : Backfilling - 02 external waste dumps
under waste dump. 3.2 ha during are also there
2014-15

e.Yearly generation : 6,96,820.000 606915.000 Cum. 1820745 te
of waste quantity. Cum

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

Mineral	Production	Unit
CHROMITE	69298	TON

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

Efforts for improving low grade and sub grade mineral. : beneficiation plant to upgrade the low grade ore.

Efforts for improving percentage of recovery of ore. : Sorting & Sizing

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : 100% w.r.t. ROM

Number of benches in ore and waste. : Quarry 2- Ore- 1, Waste- 14

Sub/grade mineral/fines (Rule 16)

Qty of yearly generation and total qty available during inspection with grade : Nil

Number and size of each stack : Nil

Location of stacking. : Nil

Separate stacking from waste : Nil

Total area covered for stacking : Nil

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 and undulating
- b. Aesthetic environment : Garden developed in front of office with landscaping (700Sqm).
- c. Soil and land use pattern : top soil generation negligible.
- d. Agriculture : Not within the lease.
- e. Forest(flora and fauna) : local species, Plantation on dump slope of around 8000nos.
- f. Vegetation : Preserved in non-working area. Seed broad casting on dump slope.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : None

B Water environment.

- a. Surface water : As per approved SOM (Ref. Para 9.8), Mine discharge water is not to be allowed to flow outside the lease and to be diverted through garland drain to a settling tank. The water from this settling tank is then pumped to the ETP for treatment for keeping Cr6+ within permissible limit. However, ETP was not found during inspection. Violation issued for the same.
- b. Ground water : Permission has been obtained from CGWB.
- c. Quality of water : water quality monitoring being done.

C. Air environment

- a. Noise : Acoustic enclosure in DG, & Closed cabin for shovel - dumper are provided.
- b. Air : Water sprinkling in mines by water tankers ,wet drilling/dust extractor are provided
- c. Climatic condition : Sub-tropical.

D. Socio economic environment

- a. Social and demographic profile. : As reported, local tribal & employees are encouraged for enriching awareness on family planning through Cultural activities
- b. Recommending health and safety. : IME & PME for employees as per mines rule, vocational training to employees , providing personal protective equipment (PPE) to all employee, medical facility are reported being provided.
- c. Human settlement : Not within lease area. except few employees residence.
- d. Recreational facility. : one recreational club is there.

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 - Rs 3808 /-per te.
- (2) Reserve - Proved Mineral Reserve-111- 0.540
- (3) Production - 69298.000 M.T.- ROM
- (4) Pit's Mouth Value - 40% to below 52% Cr₂O₃ -Rs/te = 10114.00
- (5) Stock - Fines- 18854.565 M.T., Lump - 33655.134 M.T., Concentrate - 6011.150 M.T.

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.)

During inspection, it was observed that the ML Boundary pillar nos. J2-a & J2-b (as marked over lease plan) were not fixed over the ground in the north-western side. Further, a Waste Dump (No.-2) found in this area, seems to be partly falling outside the Mining Lease boundary. In this regard, a letter dtd. 12.08.2015 sent to Director Mines, Odisha requesting that the above matter may be please be verified and further necessary action as deemed fit may be taken.

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

Nil

Date :

(SHRI PREM PRAKASH)

Indian Bureau of Mines