

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

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/CR/JJP/MCDR-12/BBS

**Mine code :** 11ORI19014

- (i) Name of the Inspecting : **AR** ) **SHRI PREM PRAKASH**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 21/06/2014
- (v) Prev.inspection date : 25/09/2011

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SUKINDA**
- (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. : 06726-268143  
E-mail : smcgen@imfagroup.com  
Phone : 06726-268139,268143
- (e) Police Station :
- (f) First opening date : 15/09/1999
2. Address for : SUKINDA CHROMITE MINE IMFA  
correspondance AT/PO-KALIAPANI  
DIST-JAJPUR
3. (a) Lease Number : ORI0693  
(b) Lease area : 116.76  
(c) Period of lease : 30  
(d) Date of Expiry : 03/09/2029
4. Mineral worked : CHROMITE Main

## 5. Name and Address of the

Lessee : INDIAN METALS & FERRO ALLOYS LIMITED  
 IMFA, BOMIKHAL, BHUBANESWAR  
 ORISSA. BHUBNESHWAR ORISSA  
 Phone:0674-580100,580125  
 FAX :0674-580045,580020

Owner : SUBHRAKANTA PANDA  
 M/S INDIAN CHARGE CHROME  
 LTD. IMFA BUILDING,  
 BOMIKHAL, RASULGARH,  
 BHUBANESWAR- 751 010 JAJPUR  
 ORISSA  
 Phone: 0674-2580100,25  
 FAX : 0674- 2580020/

Agent : R.N.PRAHARAJ  
 AT/PO-IMFA DIVISION OFFICE  
 CHRDA CHAWK,JAJPUR ROAD  
 JAJPUR ORISSA  
 Phone: 06726 220458,220112  
 FAX :

## Mining Engineer

Name : J.BHATTACHARYA,Full Time  
 Qualification : BE MINING  
 Appointment/ : 14/10/2005  
 Termination date

## Geologist

Name : B.K.ACHARYA,Full Time  
 Qualification : MSC GEOLOGY  
 Appointment/ : 01/02/2000  
 Termination date

## Geologist

Name : D.P. MISHRA,Full Time  
 Qualification : M.Sc (GEOLOGY)  
 Appointment/ : 27/04/2004  
 Termination date

## Manager

Name : A.K. BHUYA  
 Qualification : A.M.IE IN MINING ENGINEERING  
 Appointment/ : 18/10/1999  
 Termination date

## Manager

Name : K.N. BHOI  
 Qualification : AMIE  
 Appointment/ : 24/09/2003  
 Termination date

6. Date of approval of Mining : 31/07/2013  
 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	8	304
Supervisory	20	304
Workers	54	304
CONTRACT		
Workers	511	304
Managerial	2	304
Supervisory	6	304

**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	
<b>General</b>					
Sanitation	0.00	0.00	0.01		
Housing	1.44	5.66	6.12		
Water supply	1.73	1.66	1.01		
Health	0.07	0.07	0.08		
<b>Sub total</b>	<b>3.24</b>	<b>7.39</b>	<b>7.22</b>		
<b>Infrastructure</b>					
<b>Sub total</b>			<b>7.39</b>		
<b>Recreation</b>	<b>0.06</b>	<b>3.50</b>	<b>5.30</b>		
<b>Training</b>	<b>2.83</b>	<b>2.81</b>	<b>2.80</b>	<b>0.04</b>	
<b>Environment management</b>	<b>5.58</b>	<b>1.50</b>	<b>4.94</b>		
<b>Total</b>	<b>11.71</b>	<b>15.03</b>	<b>20.43</b>	<b>0.04</b>	

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

During last inspection dtd. 07.12.12, violation of rule 23(E)(2) was pointed out vide this office letter dtd. 31.12.2012. the same was recorded complied on dtd.29.01.2013. During this inspection , violation of rule 13(1) & 45(7) were observed and being communicated to the party.

**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)**

a.Type of prospecting : nil  
and exploration i.e.  
pitting, drilling nil

b.Total area covered : Nil Nil

**B. Working (Rule 13)**

c.Ore to waste ratio : 2.53  
pit wise if possible  
otherwise for mine 1.94

b.Bench : 300 X 14 X 8  
size(LxWxH)length can  
be defined as  
regular/irregular 300 X 14 X 8

a.Number and size of : 600 x 466 x104  
each pit (LxWxH) 600 x466 x88

d.Total area covered : 28 ha  
under excavation/pits 28 ha

**C. Waste disposal (Rule 13)**

a.Location of dumps : E2400/N2000 E2400/N2000

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

c.Total area covered : 54 Ha  
under waste dump. 54 Ha

d.No.and size of each : Number-01& Step-3  
waste dump with No of nos  
steps/lift/bench 01 & 3 steps

e.Yearly generation : 8.885 lakh cum.  
of waste quantity. 6.810 lakh cum.

<u>PRODUCTION FOR THE PREVIOUS YEAR</u>		<u>-</u>
Mineral	Production	

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

Efforts for improving low grade and sub grade mineral. : NA

Efforts for improving percentage of recovery of ore. : NA

**Mineral Rule 15**

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

Number of benches in ore and waste. : In Ore 4 Benches  
In OB 9 Benches

**Sub/grd mineral/fines (Rule16)**

Qty of yearly generation and total qty available during inspection with grade : Generation- NIL (during the year 2013-14)  
Utilization- NIL(during the year 2013-14)  
Available total Quantity 612929.000 MT  
Grade- 10 to 30%

Number and size of each stack : 01 no. stack

Location of stacking. : E 3300 / N 2400

Separate stacking from waste : yes,

Total area covered for stacking : 5.4 ha

**Exploration data as on 31/03/**

No. of Boreholes	No. of Pits	No. of Trenches
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<b><u>OVERBURDEN HANDLED DURING PREVIOUS YEAR</u></b>	<b><u>-</u></b>
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**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. : Undulating and low height hillick with gentle slope area.
- c. Soil and land use pattern : Lateritic soil and land use as follows:  
 Area under Mining-28.00 ha,  
 OB Dump-54 ha.  
     Mineral storage-5 ha.  
     Infrastructure - 2.5 ha.  
     Safety zone- 2.8 ha.,  
     ETP-1 ha,  
     Roads-2 ha.  
     Other undisturbed Area-21.46 ha,
- d. Agriculture : Nil
- e. Forest(flora and fauna) : No forest land within lease area and no important flora & fauna existing within the lease area.
- f. Vegetation : No extra land degraded during the year 2013-14.
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : There are no places of archaeological / tourist / religious place within the lease hold area

### B Water environment.

- a. Surface water : No natural drainage, nallah existing in the lease area.
- b. Ground water : the ground water table not intersected yet.
- c. Quality of water : The quality of Surface water and Ground water are regularly monitor and analysed. The analysis results of the ground water quality is potable.

### C. Air environment

- a. Noise : Preventive maintenance of machineries is carried out properly in order to control noise level below 85 db in the work environment .
- b. Air : Various air pollution control measures are taken like-  
 The Drilling Machine has been provided with the wet drilling arrangement and water spraying over haul road.
- c. Climatic condition : The Climate of this region it mainly tropical type and is influence to some extent by condition in the bay of bengal . Monsoon season start from June and extent up to October with total average annual rain fall of 1500 MM.

**D. Socio economic environment**

- a. Social and demographic profile. : CSR activities reported being carried out by the mine management for up liftment of socio economic conditions of the near by villagers by providing facilities like
- a) Health
  - b) Education
  - c) Road development
  - d) Drinking Water Facilities
  - e) Cultural and recreational activities
  - f) Afforestation and environment
  - g) vocational Training
  - h) Employment
  - I) Sanitation System
- b. Recommending health and safety. : To avoid any adverse effects under health of workers due to dust noise and vibration company is ensuring measures like
- a. Rest shelters for mine workers with drinking water facilities.
  - b. Use of safety appliances , safety training , safety awards, poster , slogan
  - c. Extensive publicity and propaganda related to safety
  - d. Periodic medical examination of workers by medical specialist
- d. Recreational facility. : provided in the colony.

**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>			-	Area in Hect.
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<u>TOP SOIL MANAGEMENT</u>	
Quantity as on 31/03/	



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

Scrutiny of annual return 2013-14 is as below :

1.	Cost of operation	:1810 Rs/MT
2) Reserve	:347998 MT	
3) Production	: 347998 MT-processed ore	
4) Pit mouth value	: 1810 Rs/MT * captive Mine	
5) Stock	:69998 MT	
6) Land use pattern	:	

SL No Description Area in Ha.

1 Area Under Mining	28.00	
2 Over Burden Area	54	
3 Mineral Storage		5 ha
4 Infrastructure Area	5.5	

**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.)

NIL

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

Nil

Date :

(SHRI PREM PRAKASH)

Indian Bureau of Mines