

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

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/IRON-MN/SNG/MCDR-9/BBS

**Mine code :** 30ORI13009

- (i) Name of the Inspecting : **25** ) **SHRI IBRAHIM SARIF**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Kathi Pradhan, Mines manager  
Official with  
Designation
- (iv) Date of Inspection : 09/03/2016
- (v) Prev.inspection date : 02/11/2013

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KURMITAR(KHANDADHAR)**
- (b) Category : A Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : RANTHA
- Taluka : BONAIGARH
- Post office : BARSUAN
- Pin Code : 770041
- FAX No. : 275257
- E-mail :
- Phone : 06767-275253
- (e) Police Station :
- (f) First opening date :
2. Address for : VILL:SAREIKELA,PO.BARSUAN  
correspondance POLICE STATION : BARSUAN  
DIST> SUNDARGARH,ORISSA,PIN 770041
3. (a) Lease Number : ORI0039
- (b) Lease area : 408.87
- (c) Period of lease : 30
- (d) Date of Expiry : 30/12/1998
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : O.M.C.LTD.  
SRI.G.K.DHAL,MD OMC House  
,P.B.No.34 BHUBANESWAR  
KHURDA ORISSA  
Phone:  
FAX :0674-401629(BBSR),06767-30257

Owner : m/s ORISSA MINING CORPORATION LTD  
OMC HOUSE P.B.No.34  
BHUBNESHWAR ORISSA  
Phone:  
FAX :

Agent : P.K.BHATTACHARYA  
Sr. MANAGER, M/S OMC LTD  
BARBIL DIST-KEONJHAR  
KEONJHAR ORISSA  
Phone: 06767-75253  
FAX :

## Geologist

Name : S.MISHRA,Full Time  
Qualification : M.Sc (APPLIED GEOLOGY)  
Appointment/ :  
Termination date

## Manager

Name : S.C.PATRO  
Qualification : DME(MINING)  
Appointment/ : 26/04/1995  
Termination date

6. Date of approval of Mining : 08/05/2015  
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
<b>DIRECT</b>		
Supervisory	22	309
Others	54	309
Managerial	17	309
<b>CONTRACT</b>		
Others	67	121
Supervisory	18	309
Workers	244	309
Managerial	6	309

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>					
Water supply	10.60	10.32	130.50		
Sanitation	12.58	11.37	49.92		
<b>Sub total</b>	<b>23.18</b>	<b>21.69</b>	<b>180.42</b>		
<b>Infrastructure</b>					
Public transport	*****	*****	*****		
<b>Sub total</b>	<b>*****</b>	<b>*****</b>	<b>21.69</b>		
<b>Environment management</b>	<b>56.75</b>	<b>73.32</b>	<b>56.75</b>		
<b>Total</b>	<b>*****</b>	<b>*****</b>	<b>*****</b>		

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

No outstanding violations.

During current inspection violation of rule 13(1), 27(4), 33(2), 42(1) of MCDR 1988 was observed.

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 recommended at present

## 5. Scientific Mining

Items	Proposal	Actual work done	Remarks
-------	----------	------------------	---------

**A. Exploration (Rule 13)**

a.Type of prospecting : 4 Nos  
and exploration i.e.  
pitting, drilling Nil

**B. Working (Rule 13)**

a.Number and size of : Quarry-I - Quarry-I - 128mx120mx24m  
each pit (LxWxH) 128mx120mx24m Quarry-II -  
Quarry-II - 800mx320mx124m  
800mx320mx124m Quarry-VI -  
Quarry-VI - 240mx100mx25m  
240mx100mx25m

b.Bench : Quarry-I - Quarry-I - Regular  
size(LxWxH)length can Regular 13mx6m  
be defined as Quarry-II - Quarry-II - Regular 2 to  
regular/irregular Regular16mx 8m 15 m x 8 to 20m  
Quarry-VI - Quarry-VI - Regular10 to  
Regular18mx6m 20m x 6 to 15 m

c.Ore to waste ratio : 0.17 0.20  
pit wise if possible  
otherwise for mine

d.Total area covered : 54.00 ha 54.00 ha  
under excavation/pits

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

a.Location of dumps : Dump Number Co-ordinates Dump Number Co-ordinates  
E N E N  
Waste Dump Waste Dump  
( Dead) 4000-4350 ( Dead) 4000-4350  
4350 2200-1800 2200-1800  
Waste Dump Waste Dump  
( Active) 4400-4600 ( Active) 4400-4600  
4600 2000-2150 2000-2150

e.Yearly generation : 530000 Cum 4,80,759Cum  
of waste quantity.

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

c.Total area covered : 1. 8.93 Ha. 1. 8.93 Ha.  
under waste dump. ( Dead Dump) ( Dead Dump)  
2. 6.85 ha 2. 6.85 ha  
( Active Dump- WD) ( Active Dump- WD)

d.No.and size of each : 1. Dead Dump - 8 1. Dead Dump - 4 nos of  
waste dump with No of nos of terrace terrace



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

Efforts for improving : Screening & crushing  
percentage of recovery of  
ore.

**Mineral Rule 15**

Number of benches in ore and : Quarry-I - 1 ( Waste) + 3 ( Ore)  
waste. Quarry-II - 15 ( Ore)  
Quarry-VI - 1( Waste) + 4 ( Ore)

Percentage of recovery of ore : 95%  
pitwise w.r.t. ROM and total  
material

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

Qty of yearly generation and : Generation - 3200 MT  
total qty available during Utilization (Sale)-56,998.73 MT  
inspection with grade Qt. Available -1,50,701.270 MT

Number and size of each stack : 1 Old sub grade dump - 4.42Ha  
2 Existing sub-grade dump (SGD)- 5.80 Ha

Total area covered for : 10.22 Ha  
stacking

Separate stacking from waste : Yes

Location of stacking. : Dump Number Dump type

			TS/OB/SGM Co-
	ordinates		
		E	N
	Sub Grade Dump-1 SGM	2800-3050	2200-2450
	Sub Grade Dump-2		
	( SGD)	SGM	4300-4500
	2000-1800		

**Exploration data as on 31/03/ 2015**

No. of Boreholes	No. of Pits	No. of Trenches
211		

**OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015**

Overburden/waste removed (in m3) :	476716
------------------------------------	--------

**Utilisation of Sub Grade Mineral and Mineral Rejects**

Generated	Utilised	Stacked	(In Ton.)

**7. Environment Management - both quantitative and qualitativ****A. Land environment**

- a. Landscape. : Hilly terrain
- b. Aesthetic environment : Surrounded by Forest and natural vegetation
- c. Soil and land use pattern : No top soil present
- d. Agriculture : Nil
- e. Forest(flora and fauna) : Flora-Sal, Jamun, Chhatian etc.  
Fauna-Squirrel, Garden Lizard, snakes and mouse rarely seen migrated monkey
- f. Vegetation : Sal, kathsiali, chara, kumbhi etc.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : No

**D. Socio economic environment**

- c. Human settlement : No Human settlement in 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.**

<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.
Within lease area			Outside lease area			
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate	
0	0	0	1.5	2000	50	

<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. 1450.54
- (2) Reserve -(in Million tonne )  
Proved Reserves: 107.74  
Probable Reserves : 37.61  
possible resources : 41.3  
Total Resources : 186.65
- (3) Production -6,86,316MT
- (4) Pit's Mouth Value-Rs.1,850
- (5) Stock-28,47,009.850MT as on 29.02.2016
- (6) Land use  
Area covered under excavation/pits: 40.625 Ha  
Area covered under waste dump: 15.78 Ha  
occupied by planmt : 6.778 Ha  
Road: 1.68 Ha  
Total : 62.853 Ha
- (7) Fixed assets-Rs.5,01,96,580



**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