

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-23/BBS

Mine code : 300RI13051

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 28/05/2015
- (v) Prev.inspection date : 08/09/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PATABEDA**
- (b) Category : A Other than Fully Mech.
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : SUNDARGARH
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (e) Police Station : KOIRA
- (f) First opening date : 12/11/2006
2. Address for : VILLAGE- PATABEDA,
correspondance P.O.- MALDA
DISTRICT- SUNDARGARH,
3. (a) Lease Number : ORI0979
- (b) Lease area : 28.4
- (c) Period of lease : 20
- (d) Date of Expiry : 07/03/2026
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/S.MGM.MINERALS (P) LTD
SUNDARGARH ORISSA
Phone:
FAX :

Owner : M.G.MOHANTY
PB-17, PO.BARBIL, KEONJHAR
ORISSA. KEONJHAR ORISSA
Phone: 06767-30318
FAX : 06767-30770

6. Date of approval of Mining :
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	3	305
Workers	112	305
Supervisory	25	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					
Infrastructure					
Sub total					
Sub total					
Total					

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

No outstanding violations. During current inspection violations of rule 13(1), 47 and 48 of MCDR 1988 was pointed out to the party vide this office letter dated 16.06.2015

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 recommended

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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A. Exploration (Rule 13)

a.Type of prospecting : and exploration i.e. pitting, drilling	4 no. 123.2 meterage
b.Total area covered :	20 Ha

B. Working (Rule 13)

b.Bench : size(LxWxH)length can be defined as regular/irregular	160*20*6
c.Ore to waste ratio : 1:0.11 pit wise if possible otherwise for mine	1:0.11
d.Total area covered : 12.81 ha under excavation/pits	12.81 ha

C. Waste disposal (Rule 13)

a.Location of dumps : Dump-A : Northern part of lease area	Dump-A : Northern part of lease area Dump-B : North eastern part
e.Yearly generation : of waste quantity.	5750 T
b.Method of dumping : Retreating whether advancing/retreat	Retreating
c.Total area covered : 2.84 ha under waste dump.	2.84 ha
d.No.and size of each : waste dump with No of steps/lift/bench	Dump-A : single lift Dump-B : 3 lifts

D. Production

b.Year wise : production of last five year.	2014-15 -285480.00 T
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D. Reserve

a.Reserve position as : per latest MP/MS and at the time of inspection.	Proved Mineral Reserve 111 7434340.500 +55%Fe Probable Mineral Reserve 121 and 122 1392013.000 +55%Fe Prefeasibility Mineral Resource 221 and 222
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859592.000 +55%Fe

RESERVE POSITION AS ON 01/04/2015**IRON ORE**

Category	Quantity in Tonnes	Grade
Proved	7434340.5	+55%Fe
Probable	1392013	+55%Fe
Possible	859592	+55%Fe
Total	9685945.5	

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
IRON ORE	285480	TON

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

Efforts for improving : blending of low grade with high grade ore
percentage of recovery of
ore.

Mineral Rule 15

Number of benches in ore and : Ore- 13, Waste- Nil
waste.

Percentage of recovery of ore : Recovery of ore pit-wise w.r.t. ROM 90% and w.r.t to
pitwise w.r.t. ROM and total total material is 70%
material

Sub/grd mineral/fines (Rule16)

Location of stacking. : Stocked on earmarked place as per approved proposal

Separate stacking from waste : yes

Exploration data as on 31/03/ 2015

No. of Boreholes

No. of Pits

No. of Trenches

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overburden/waste removed (in m3) : 5750

Utilisation of Sub Grade Mineral and Mineral RejectsGeneratedUtilisedStacked

(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : Tthe lease area is of hilock.
- b. Aesthetic environment : Plantation has been carried out along safety zone to improve aesthetic beauty
- c. Soil and land use pattern : Land use pattern:
Excavation Pits -12.81 ha, Dump area - 2.84 ha,
Road, plant buildings-7.59 ha, others 3.71 ha.
- f. Vegetation : No prominent vegetation cover exists in the lease area.
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : Not applicable, as there is no Public building, places and monuments (protected monument and historical monument), places of worship and places of tourist interest are existing inside lease area.

B Water environment.

- a. Surface water : There is no surface water contamination observed.
- b. Ground water : No adverse effect to ground water due to mining activity in the lease area.
- c. Quality of water : Potable

C. Air environment

- a. Noise : Quarterly monitoring data shows noise level is within permissible limit.
- b. Air : Water sprinkling is being carried out on haul roads at regular interval to arrest air borne dust.
- c. Climatic condition : Sub Tropical

D. Socio economic environment

- a. Social and demographic profile. : 80% of the total employment is from Local villages, most of them are Tribal & backward classes.
- b. Recommending health and safety. : Full time Doctor is employed in the dispensary nearby mines. one ambulance van is provided by mine management for shifting at emergency. Free medicine is supplied to the workers & nearby villagers and free medical camps is being organised.
- c. Human settlement : No human settlement in core zone of 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>					Value	
Season	Station type	Station name	Parameter		Actual	Excess
<u>Air data for excess parameters</u>					Value	
Season	Station name	Type of area	Parameter		Actual	Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u>	<u>2014 - 2015</u>
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Area in Hect.

TOP SOIL MANAGEMENT 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 Production Rs. 1270.36

2) Reserves

111-7434340.50 MT, 121 & 122- 1392013.000 MT, 221 & 222- 859592.000

3) Production(11-12) 2,85,480.00 MT

4) P.M.V. : Lumps

58% to below 60% - Rs 3600

60% to below 62%- Rs. 3336.19

62% to below 65% - Rs. 4106.87

65% and above Rs. 4304.78

Fines:

Below 55% -Rs. 700.00

55% to below 58% - Rs. 900.66

60% to below 62%- Rs. 2311.32

65% and above Rs.2587.90

Rs 4431.719 for , Rs 1921.726 for Fines

5) Stock- 84511.97 T

(6) Land use pattern:

Excavation Pits -12.81 ha, Dump area - 2.84 ha,

Road, plant buildings-7.59 ha, others 3.71 ha.

(7) Fixed assets (Rs.'000) : 2284972

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