INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-16/BBS Mine code : 300RI08015

(i) Name of the Inspecting: 25) SHRI IBRAHIM SARIF

Officer and ID No.

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine : S.S.Barik, Regional Manager,

Official with Designation

(iv) Date of Inspection : 17/03/2016
(v) Prev.inspection date : 24/07/2015

PART-I : GENERAL INFORMATION

1. (a) Mine Name : DAITARI

(b) Category : A Mechanised

(c) Type of Working : Opencast

(d) Postal address

State : ORISSA

District : KEONJHAR

Village : TALAPADA

Taluka : GHATGAON

Post office : TALAPADA

Pin Code : 758026

FAX No. : 06726-48723

E-mail :

Phone : 06726-48722

(e) Police Station :

(f) First opening date : 18/02/1967

2. Address for : DAITARI IRON ORE MINE, OMC,

correspondance

3. (a) Lease Number : ORI0085 (b) Lease area : 1812.99

(c) Period of lease : 30

(d) Date of Expiry : 26/01/1996

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 OMC LTD.

M/S OMC LTD. OMC HOUSE,

POST BOX NO. 34

BHUBANESWAR-751010 KEONJHAR

ORISSA
Phone:
FAX:

Agent : N.C.SAHOO, SR. MANAGER

C/O.DAITARI MINE, OMC JAJPUR DISTRICT, ORISSA

JAJPUR ORISSA

Phone:

FAX : 06726-48723

Mining Engineer

Name : B.B.NAYAK, Full Time Qualification : DIGREE IN MINING

Appointment/ : Termination date

Mining Engineer

Name : R.C.SAHU, Full Time Qualification : DIPLOMA IN MINING

Appointment/ : Termination date

Mining Engineer

 $\begin{array}{lll} \mbox{Name} & : & \mbox{N.C.SAHOO,Full Time} \\ \mbox{Qualification} & : & \mbox{DME(MINING), AMIE.} \end{array}$

Appointment/ : 24/07/2000

Termination date

Geologist

Name : K.RAY, Full Time
Qualification : M.SC(GEOLOGY)
Appointment/ : 28/09/2001

Termination date

Manager

Name : N.C.SAHOO

Qualification : DME(MINING), AMIE.

Appointment/ : 24/07/2000

Termination date

6. Date of approval of Mining : 08/01/2015 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 cated	gory No.of employment	Av. yearly working days
Workers	40	309
Plant	28	309
Ministri	al 33	309
Others	109	309
Supervis	ory 22	309
Manageri	al 44	309
CONTRACT		
Plant	301	309
Workers	150	309
Others	86	309
Supervis	ory 3	309
Ministri	al 3	309
Manageri	al 2	309

2. Community Development Plan (in and around the mines): Proposed action and expenditure towords socio-economic development.

Action during the year	Exp	enditure in R	s. Lakhs for		Remarks
	previo	us year	current	year	
	Proposed	Incurred	Proposed	Incurred	
General Water supply		23.18			
Health	166.00	78.85	72.00		
Sub total Infrastructure	166.00	102.03	72.00		
Roads			23.00	200.00	
Sub total			102.03	200.00	
Others			10.35	44.00	
Sports activities	14.00	13.00	3.10	13.00	
Environment management	35.00	22.00	152.50		
Total	215.00	107.00	290.98	257.00	

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

There was no outstanding violation of MCDR 1988 During current inspection violation of rule 13(1), 27(4) and 45(7) of MCDR 1988 was observed and pointed out to the partty vide this office letter dated. .03.2016

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.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks

A. Exploration (Rule 13)

a. Type of prospecting: 6000 meterage of Nil

and exploration i.e. drilling

pitting, drilling

b.Total area covered : 400 ha.

B. Working (Rule 13)

a.Number and size of:

each pit (LxWxH)

b.Bench : 05 Nos. of Bench 05 Nos. of Bench of size(LxWxH)length can of size 500×20 size $500 \times 20 \times 10$

be defined as x 10

regular/irregular

d.Total area covered : 61.63ha. 61.63ha.

under excavation/pits

D. Production

b. Year wise : 2014-15 : 1801704.000 MT production of last 2015-16 (up to Feb'2016)

five year. : 2726716.000 MT

D. Reserve

a.Reserve position as:

Description as:

Category Quantity

per latest MP/MS and

(in Mill Tonnes) Grade

at the time of

Proved 72.444

inspection.

+58% Fe Probable 80.71

+58% Fe

Possible 32.25

+45% Fe

Total 185.404

RESERVE POSITION AS ON 01/04/2015

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	72444000	+58% Fe
Probable	80710000	+58% Fe
Possible	32250000	+45% Fe
Total	185404000	

	PRODUCTION FOR THE PREVIOUS YEAR	2014 - 2015
Mineral	Production Uni	5
IRON ORE	1801700 TON	

6. Conservation of Mineral - both quantitative and qualitative

Beneficiation (Rule 20 and 26)

Efforts for improving percentage of recovery of ore.

: blending of different grade to make it salable grade

practically the deposit of this mine contains High grade ore.

Minearl Rule 15

Number of benches in ore and : 5 No. of benches in Ore No waste benches . waste.

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

	Exploration data as on 31/03/ 201	5
No. of Boreholes	No. of Pits	No. of Trenches
136	103	

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overbuden/waste removed (in m3): 0

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.

- : Daitari ML area is an undulated hilly terrain consisting of high ridges & valleys forming a part of the Tomka-Daitari hill range extending from Tomka up to Harichandanpur. Daitari Iron Ore Mines of OMC Ltd is located around the Daitari Hill , featured in the survey of India topsheet no. 73G/16 (F45 N16).
- b. Aesthetic environment
- : The area of Daitari consists of forest land, quarries and rivulets.
- c. Soil and land use pattern
- : Practically no top soil is encountered in the working area.

Total ML area: - 1018.3085 Ha.

Area broken for mining -95.60Ha. (Quarry-61.63 Ha.

External dump-5.50Ha. Ore stacking and processing 14.0Ha. Camp office, workshop etc-5.50 Ha.

Construction of road-8.97 Ha.) Safety Zone-13.277

Ha.Undisturbed area-909.4315 Ha.

d. Agriculture

- : No Agricultural activity observed within lease area.
- e. Forest(flora and fauna)
- : The forests in this area (core zone) are classified as northern tropical dry deciduous forests. The tree heights very from 1.2 to 15m. Sal, Asan, and Kangara are most dominant species. Average density of trees found to be 1515 per ha. with species diversity of 2.976

f. Vegetation

: The natural Vegetation in this area is classified as Northern Tropical Dry Deciduous Forests. In this part of forest area the average tree density is about 0.4. Most of the trees are mature with height ranging from 1.5 to 15m. Sal & Kangara are most dominant species with height Kendu, Dhaura, Asan and Jamu, Mango etc. In the near by villages, common vegetation found are mango, guava, Drumstick, Jackfruit, Bel, Jamun, Ber, Bamboo & Papaya etc.

h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : No

B Water environment.

- a. Surface water
- : The area displays a dendritic pattern of drainage.
 Daitari hill range acts as a water divider. Surface
 run off of south side contributes to Damsala nala.
 Surface run off of north side contributes to Kukrangi
 nala & Kusei river.

Boulder packed check dams & RCC type check dams are built on northern side to control water current and suspended solid particles. Surface water samples on Northern side were collected and tested and parameters found to be within the criteria specified in Is: 10500.

b. Ground water

- : Ground water samples are being collected and tested. All the water parameters meet the prescribed norms. Rain water harvesting pond & roof top water collection pits are made for water storage that also helps to recharge ground water table.
- c. Quality of water
- : Potable

C. Air environment

a. Noise

: Regular noise monitoring is being carried out. The noise level is within permissible limits.

b. Air

- * Monitoring of Ambient air quality (PM10, PM2.5 SO2, NOx & CO) is being done regularly. Monitored results found to be within the norms specified in NAAQS by CPCB. Dust suppression measures like water sprinkling through mobile water tanker & installation of nozzle spray system at hopper are done to control dust to arrest dust air pollution. Main haul road is black topped on which water sprinkling is done regularly to suppress dust.
- c. Climatic condition
- : Daitari area enjoys a humid temperate subtropical climate, summer months are the hottest periods of the year with the mercury rising up to 40°C. The minimum temperature during winter is about 7°C. Annual rainfall is of the order of 1000 mm-1300mm.

D. Socio economic environment

- a. Social and demographic profile.
- : Population density of Daitari leasehold area is about 116 Persons per sq. KM out of which there are about 943 females per 1000 males Literates-41.61%, working polupation-41.54% of total population. Economic condition: Marginal-52%, small farmer's category-13%, Medium & large farmer's category-35%. OMCL takes up possible measures for the socio-economic upliftment of nearby villages. In mining and mineral handling activity the local people are given preference.
- b. Recommending health and safety.
- : All safety measures like use of safety appliances are provided to workers along with training of its usage. Periodical medical examination of workers is done. Lessee conducting free periodic health camps in nearby villages. And established 16 bedded hospital for its employeesas well as for local people.
- c. Human settlement
- : No Human settlement within lease area
- d. Recreational facility.
- : There are 05 clubs in different sectors of Daitari Iron Ore Project. Central Cultural Committee provides sports materials and other facilities for improvement of games in every respect.
- 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.

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				Value
Season	Station type	Station name	Parameter	Actual Excess

		Air data for excess parameters			
		_			lue
Season	Station name	Type of area	Parameter	Actual	Excess

PLANTATION DURING THE PREVIOUS YEAR 2014 - 2015						
					Area in Hect.	
Within lease area				Outside lease area		
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate	
0	0	0	2	5500	87	

TOP SOIL MANAGEMENT
Quantity as on 31/03/2015

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

For the year 2014-15

- (1) Cost of operation Rs 1258.57/MT
- (2) Reserve 185.404 million tone as on 1.03.2016
- (3)Production 18,01,700 MT
- (4)Pit's Mouth Value Rs 3785.72 for CLO & Rs. 2512.12 for Fines (last year)
- (5)Stock as on 10.3.2015 Total-.25,830.493M.T of CLO & FINES (at Mines)
- &21,46,469.677MT of CLO & FINES
- (at Baliparbat) & 58,852.745 MT of CLO & Fines (at DRS)
- (6) Land use pattern Total ML area -1018.3085 Ha.
- (7) Fixed assets Rs. 103985268.00

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.)

As per the Mines Act, Mine includes Transportation up to railway siding, in this regard Adjacent area over which conveyor is passing through may have been included in mining lease area of Daitari lease for better administration.

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

As per the Mines Act, Mine includes Transportation up to railway siding, in this regard Adjacent area over which conveyor is passing through may have been included in mining lease area of Daitari lease for better administration.

Date:

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines