INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/CR/KJR/MCDR-3/BBS Mine code : 110RI08001

Name of the Inspecting : RAM) RAMKISHAN R

Officer and ID No.

(ii) Designation : Sr. Asst. Contrl. Mines

(iii) Accompaning mine : Shri G Sahoo, Mine Manager

Official with Designation

(iv) Date of Inspection : 27/09/2019

(v) Prev.inspection date : 19/03/2019

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BANGUR (OMC)

(b) Registration NO. : 4269/IBM/2011

(C) Category : A Other than Fully Mech.

(d) Type of Working : Underground

(e) Postal address

State : ORISSA District : KEONJHAR Village : BANGUR Taluka : HATADIHI Post office : DHANURJAYPUR

Pin Code : 758078 FAX No. : 06731-279057

E-mail : omcbangur@gmail.com Phone : 06731-279948,279057

(f) Police Station : Soso

First opening date : 25/01/1980

(h) Weekly day of rest : SUN

2. Address for : BANGUR CHROMITE MINE, M/S OMC LTD correspondance P.O.DHANURJAYAPUR, DIST: KEONJHAR

ORISSA-758078

Lease Number (a) : ORI0249

(b) Lease area : 139.98

(c) Period of lease : 20 Date of Expiry (d) : 01/09/1995 2025

4. Mineral worked : IRON ORE Associated CHROMITE Main

5. Name and Address of the

O.M.C.LTD. Lessee

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: 2393431 FAX : 2391629

Agent

SHRI BIJAY KUMAR BEHERA

BANGUR CHROMITE MINE PO-DHANURJAYPUR KEONJHAR

KEONJHAR ORISSA

Phone: FAX :

Mining Engineer

SHRI GHANSHYAM SAHOO, Full Time Name

Qualification : DEGREE IN MINING ENGINEERING

21/05/2016 Appointment/ :

Termination date

Geologist

SHRI P K NAIK, Full Time Name

MSC GEOLOGY, PHD Qualification :

29/09/2016 Appointment/ :

Termination date

Manager

SHRI GHANSHYAM SAHOO : Name

Qualification : DEGREE IN MINING ENGINEERING

Appointment/ : 21/05/2016

Termination date

6. Date of approval of Mining

Renewal under rule 24 MCR1960 03/04/2008 Plan/Scheme of Mining 19/02/2010 Mining Scheme rule 12 MCDR1988 Mining Scheme rule 12 MCDR1988 21/07/2015

: FMCP under 23C(1)

21/02/2008

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal.	20 nos of boreholes were drilled as a part of explration during the year 2018-19.	e Nil
1b	Exploration over lease area for geological axis 1 or 2	16 nos of boreholes were proposed during the year 2018-19 to brought area under G1/G2 level.	20 nos of boreholes were drilled as a part of explration during the year 2018-19.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Thriveni earth Movers Pvt Ltd. Salem , Tamilnadu and expenditure inccured was Rs.35158269.00	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	16 nos of boreholes were proposed during the year 2018-19 to brought area under G1/G2 level.	20 nos boreholes were drilled.	Nil
le		As per the approved document on 21.07.2015 the chrome ore reserves are 2.08 million tonnes and resources are 4.54 million tonnes.	after addition and depletion over period of time the chrome ore reserves are 2.08 million tonnes and resources are 4.54 million tonnes as on 01.04.2019.	Nil
lf	General remarks of inspecting officers on geology, exploration etc		The Bangur chromite deposit occupies the south eastern part of the Boula-Nuasahi ultramafic belt. Exploration is undertaken as per the proposal.	Nil

Development :

מו וי	Item	Propasals	Actual work	Remarks
l.No.	Item	riopasais		
2a	Location of development w.r.t.lease area	Mine development is by Underground Mining with sub level open sotping.	Underground mining with sub level open stoping	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not applicable.	Nil	Nil
2c	Stripping ratio or ore to OB ratio	Not applicable	Nil	N/ 3
2d	Quantity of topsoil generation in m3	Not applicable		Nil
2e	Quantity of overburden generation in m3	12875 cu.m. was proposed to be generated from underground mine wrkings during the year 2018-19.	5880 cu.m. of waste was genarated during the year 2018-19 by underground mine workings.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mine is developed by underground mining method with sub level open stoping method.	Nil

Exploitation:

EVAT	016461011			
Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Production is proposed by undergound mining with sub level open stoping method.	Production is carried out by underground mining with sub level open stoping method.	Nil
3b	Quantity of ROM mineral production proposed	89650 t of ROM with 58750 t of ore.	22934 t of ROM with 11300 t of chrome ore.	Nil

3с	Recovery of sailable/usable mineral from ROM production		11300 t	Nil
3d	Quantity of mineral reject generation	5785 t was propsoed to be generated and blended with ore.	generated mineral rejects was blended with ore.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	+10-30% Cr203	+10-30% Cr203	Nil
3f	Quantity of sub grade mineral generation.	Not applicable	Nil	Nil
3g	Grade of sub grade mineral generation	Not applicable	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not applicable.	Nil	Nil
3ј	Provision of drilling and blasting in mineral benches	Drilling & blasting in underground is proposed.	Drilling & blasting in underground is carried out.	Nil
3k	Provision of mining machineries in mineral benches	Not applicable. As such no benches proposed due to underground mining.	Nil	Nil

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not applicable.	Nil	
3m	Total area covered under excavation/pits	13.3 ha by abandoned opencast mine.	13.3 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	Not applicable	Nil	
30	Total area put in use under different heads at the end of year	Total area 35.38 ha: abandoned opencast workings: 13.3 ha, waste disposal: 11.51 ha, infrastrucure: 6.23 ha, minera lstorage: 4.34 ha. at the ned of plan period i.e. 2019-20.		Nil
3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 23400 MT 2015-16 - 39770 MT 2016-17 - 55650 MT 2017-18 - 70810 MT 2018-19 - 89650 MT	2014-15 - Nil 2015-16 - Nil 2016-17 - 2109 MT 2017-18 - 18584 MT 2018-19 - 22934 MT	Mine was not in operation due to want of EC from 01/10/2011 to 27/05/2016 and reopened on 30/07/2016.
3q	General remarks of inspecting officers on method of mining etc.		production is carried out by underground mining method with sub level open stoping as proposed.	Nil

Sl.No. Item Propasals Actual work Remarks

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	of top soil, OB and mineral rejects. However waste	surface dump.	
4b	Location of topsoil, OB and mineral reject dumps	waste dump-3, South easternisde of the lease area.	waste dump-3, South easternisde of the lease area.	Nil
4c	Number of dumps within lease area and outside of lease area	with in lease area. one no. of waste dump is proposed during the year 2018-19.	with in lease area one no of waste dump as waste dump-3	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	ouside UPL	Nil
4e	Number of active and alive dumps.	one no. dump	one no. dump	Nil
4 f	Number of dead dumps.	Not applicable	Nil	
4 g	Number of dumps established.	Not applicable	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	wall for the	Nil	Nil
4i		Not applicable.	Nil	

4 ј	Number of settling ponds	Not	applicable	Nil	
4 k	Specific comments of inspecting officer on waste dump management			waste dumping is carried out as per the proposal.	Nil

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not applicable.	Nil	Nil
5b	Area under backfilling of mined out area	Not applicable	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Nil	
5d	Total area fully reclaimed and rehabilitated	Not applicable	e Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Plantation on the dump slope was undertaken.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yearly report is to be submitted.	submitted.	Nil

6b	Area available for rehabilitation (ha) .	Not applicable Nil	
6c	afforestation done (ha).	Not applicable Nil	
6d	No. of saplings planted during the year		Nil
6e	Cumulative no .of plants	6500 nos 6500 nos	Nil
6f	Any other metho of rehabilitation	d Not applicable Nil	
6g	Cost incurred or watch and care during the year	n 75000 180000	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D		
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestati on on backfilled area	Not applicable Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable Nil	

61	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not applicable 1		
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Nil	
60	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not applicable		NI - I
6р	Compliance of environmental monitoring (core zone and buffer zone)	quarterly monitoring of air, water and noise levels are proposed	carried out.	Nil Nil
6q	General remarks of inspecting officers on PMCI compliance and progressive closure operations etc.		PMCP measures were implemneted as proposed.	NII

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks	
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade-wsie sorting of mineral from ROM is proposed.	carried out.		

7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Manual	Manual	Nil
7c	Different grade of mineral sorted out at mines.	+40%Cr2O3 -	+52%Cr203, +40%Cr203 - 52%Cr203, below 40%Cr203	Nil
7d	Any beneficiation process at mines	Not applicable	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		grade-wise sorting of mineral is carried out	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not applicable	Nil	
8b	Concurrent use or storage of topsoil	Not applicable	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	waste rock generated from	carried out as proposed.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	500 nos planation on dumps	carried out	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 nos of saplings were proposed.	carried out.	
8q	Survival rate		70%	Nil
8h	Water sprinkling on roads to control airborne dust	confined to	Water sprinkling is carried out.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Good environment and asethitic beauty is mainatined due to the underground mining activities.	Restriction of entry of 1 Km radius from Hadgarh Wildlife Sanctuary boundary by MOEF, India is maintained.

Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Required to monhtly and annual returns submitted.	submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining engineer: 3, geologist: 4, diploma mining engineer: 5	Graduate Mining engineer: 3, geologist: 4, diploma mining engineer: 5	Nil

9c	Scrutiny of Annual return or land use pattern for area under pits, reclaimed area, dumps etc.	a exploited & abandoned opencast workings: 13.3		Nil
9d	Scrutiny of Annual return on afforestation		500 nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock is Nil	found to be in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production cost Rs. 18091	Production cost Rs. 18091	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets is Rs. 3,39,47,964.00	Value of Fixed Assets is Rs. 3,39,47,964.00	
9k		air compressor: 3 of 450 cu.m/m.(2) and 1000 cu.m/m.(1), vetilation fan: 1 (64000 cu.m/h), generator: 3 nos(600 kwh)	found to be in order.	Nil

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed

Show couse position

Date : 3/12/19

Rule NO. Issued on Compliance on Rule NO. Issued on Compliance on

No videta.

(RAMKISHAN R)

Indian Bureau of Mines