INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-23/BBS Mine code : 300RI13051

(i) Name of the Inspecting: RAM) RAMKISHAN R

Officer and ID No.

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

(iii) Accompaning mine : Shri P.K.Satapathy, Mining Engineer

Official with Designation

(iv) Date of Inspection : 28/08/2019

(v) Prev.inspection date : 01/10/2018

PART-I : GENERAL INFORMATION

. (a) Mine Name : PATABEDA

(b) Registration NO. : IBM/290/2011

(c) Category : A Other than Fully Mech.

(d) Type of Working : Opencast

(e) Postal address

State : ORISSA

District : SUNDARGARH

Village :

Taluka :

Post office : Grand
Pin Code : 770048

FAX No. : 06767-275770

E-mail : mgmbbl@gmail.com

Phone : 06767-275318, 276319

(f) Police Station : KOIRA

(g) First opening date : 12/11/2006

(h) Weekly day of rest : SUN

2. Address for : VILLAGE- PATABEDA,

correspondance P.O.- MALDA

DISTRICT- SUNDARGARH,

3. (a) Lease Number : ORIO979

(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

Owner

Lessee : M/S.MGM.MINERALS (P) LTD

SUNDARGARH ORISSA

Phone: FAX :

: M.G.MOHANTY

PB-17, PO. BARBIL, KEONJHAR

ORISSA. KEONJHAR ORISSA

Phone: 06767-30318 FAX : 06767-30770

: B. N. Mohapatra Agent

2A, Forest park Bhubaneswar

KHURDA ORISSA Phone: 0674-2596390 FAX : 0674-2596400

Mining Engineer

SHRI P K SATAPATHY, Full Time Name :

Qualification : B E MINING Appointment/ : 01/03/2013

Termination date

Geologist

SHRI M K PATNAIK, Full Time Name

MSC (GEOLOGY) Qualification : 01/09/2009 Appointment/ :

Termination date

Manager

HIMANSHU PATTNAIK Name : Qualification : DIGREE MINING Appointment/ : 11/05/2014

Termination date

6. Date of approval of Mining Plan/Scheme of Mining

08/11/2002 : Fresh under rule 22 MCR1960 26/10/2007 Modif.of approved Mining Plan 01/04/2011 Mining Scheme rule 12 MCDR1988 28/03/2016 Mining Scheme rule 12 MCDR1988 Modif.approved Mining Scheme 24/11/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

1.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	24 nos of boreholes were proposed during the plan period i.e. from 2017-18 to 2020-21. 10 nos of boreholes were propose during the year 2018-19.	10 nos of boreholes were drilled during the eyar 2018-19.	Nil
1b	Exploration over lease area for geological axis 1 or 2	24 nos of boreholes were proposed during the plan period i.e. from 2017-18 to 2020-21 to brought area under G1/G2 level.	10 nos of boreholes were drille during the year 2018-19.	e Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such specific proposal.	In house carried out	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	24 nos of boreholes were proposed during the plan period i.e. from 2017-18 to 2020-21 for exploring the balance area.	10 nos of boreholes were drille during the year 2018-19.	Nil

le	Balance reserve as on 01/04/20	As per the approved documnet on 24.11.2017 the iron ore reserves are 11.11 mil.t and resources are 0.63 mil.t	due to addition and depletion of reserves over period of time the updated reserves and resources as on 01.04.2019 are 10.07 mil.t and resources are 0.63 mil.t	Nil
1f	General remarks of inspecting officers on		exploration is carried out as per the proposal in mining plan.	Nil
	<pre>geology, exploration etc</pre>			

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1.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	single quarry is proposed for development by opencast mining method.	development is carried out by opencast mining method in single quarry.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	no top soil generation is envisaged, seperate benches in OBand mineral are proposed.	seperate benches in OB and mineral are maintained.	Nil
20	Stripping ratio or ore to OB ratio	1:0.035 t/cu.m. during the year 2018- 19.		Nil
2d	Quantity of topsoil generation in m3	Not applicable	Nil	Nil
2e	Quantity of overburden generation in m3	53650 cu.m.	26500 cu.m.	less waste generated due to non availability of Ec to produce 1.5 mil.t accodringly mine was not developed fully.

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

development is carried out by oencast mining method as proposed in the mining plan.

Nil

Exploitation:

l.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	1.5 mil.t	0.79 mil.t	less production due to non availability of EC to produce 1.5 mil.t accordingly mine was not developed fully.
3c	Recovery of sailable/usable mineral from ROM production		saleable ore 0.66 mil.t. and mineral rejects 0.12 mil.t.	Nil
3d	Quantity of mineral reject generation	0.24 mil.t	0.12 mil.t	Nil
3e	Grade of mineral rejects generation and threshold value declared.	+45%-58% Fe	+45%-58% Fe	Nil
3f	Quantity of sub grade mineral generation.	Not applicable	Nil	addressed in mineral rejects
3g	Grade of sub grade mineral generation	NA	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	mechanised.	mechanised	Níl

31	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.		Nil
3j	drilling and blasting in mineral benches	deep hole drilling and blsting is proposed in mineral benches.	deep hole drilling and blasting is carried out.	Nil
3k	Provision of mining machineries in mineral benches	shovel and dumper combination is proposed for excavtion and hauling.	shovel and dumper combination is deployed for excavtion and hauling.	Nil
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 m bench height is proposed.	maintained.	Nil
3m	Total area covered under excavation/pits	13.64 ha till the end of plan period i.e. 2020-21.	12.34 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.		1:0.033 t/cu.m.	Nil
30	Total area put in use under different heads at the end of year	total area put to use under differnet heads till the end of plan period is 28.397 ha		Nil

3p	Production of ROM mineral during the last five year period as applicable	536605 t 2015-16:	2014-15: 292876 t 2015-16: 285480 t 2016-17: 241430 t 2017-18: 293778 t 2018-19: 796000 t	Nil
3q	General remarks of inspecting officers on method of mining etc.		production is carried by opencast mining method as proposed in the mining plan	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)		seperate dumping of Ob and mineral rehects are carried out.	Nil
4b	Location of topsoil, OB and mineral reject dumps	mines is	waste generated from mines is dumped in Dump-3 and mineral rejects are stacked and blended with high grade ore as per the suitablity.	location of mineral rejects stack is not done as per proposal so violation oobserved and commnicated to lessee dated 06.09.2019.
4c	Number of dumps within lease area and outside of lease area	one waste dump is propsoed during the year 2018-19 with in lease area.	dumping is caried out in dump-3 as proposed.	Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	beyond UPL	beyond UPL	Nil
4 e	Number of active and alive dumps.	0.10	one active dump	Nil
4 f	Number of dead dumps.	Not proposed.	NA	Nil Nil
4 g	Number of dumps established.	Not proosed.	NA	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	retaining wall and garland drain are proposed all along dumps.		
4i	Length of Retaining wall or garland drain all along dumps		180 m retaining wall and 710 m garland drain	Nil
4 j	Number of settling ponds	Not proposed.		Nil
4k	Specific comments of inspecting officer on waste dump management		waste dumping is carried out in dump-3 as per the proposal in mining plan.	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.	Area not matured for reclaamtion and rehabilitation	Nil		Nil
5b	Area under backfilling of mined out area	Not applicable	Nil		Nil
50	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Nil		Nil

5d	Total area fully reclaimed and rehabilitated	Not applicable	Nil		Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Area not matured reclamation and rehabiliation	for	Nil

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6а	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	PMCP report to be submitted before 1 st July.	submitted.	Nil
6b	Area available for rehabilitation (ha) .	Not applicable	Nil	Nil
6c	afforestation done (ha).	0.0875 ha	0.0875 ha	Nil
6d	No. of saplings planted during the year	140 nos	140 nos	
6e	Cumulative no .of plants	280 nos	280 nos	Nil.
6f	Any other method of rehabilitation	plantation	plantation	Nil
6g	Cost incurred on watch and care during the year	Rs 3000	Rs 3000	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not applicable	Nil	Nil

61	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		Nil
61	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not applicable	Nil		Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.0625 ha	0.0625		Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.0625 ha	0.0625		Nil
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation	planta	tion	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	monitoring in core and	carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP measures were carried out as per the proposal.	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade-wsie sorting is proposed.	carried out	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical	mechanical	Nil
7c	Different grade of mineral sorted out at mines.		+45%-58% Fe and +58% Fe	Nil
7d	Any beneficiation process at mines	Not proposed.	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		grade-wsie sorting of mineral is carried out.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks	

	Separate removal	ro ton soil	Nil	Nil
8a	and utilization	generation is		
	of topsoil (Rule 32)	envisaged.		
8b	Concurrent use or storage of	Not applicable	Nil	Nil
	topsoil	seperate dumps	maintained.	Nil
8C	Separate dumps for overburden,	for OB	Allto de la compania de Colonia	
	waste rock, rejects and	andmineral rejects are		
	fines (Rule 33)	proposed.	2-1-3	Nil
8d	Use of overburden,	Not applicable	NLL	A S and other
	waste rock, rejects and			
	fines dumps for			
	restoring the land to its original use			
8e	Phased	Not applicable	Nil	Nil
	restoration, reclamation and rehabilitation			
	of lands affected by			
	mining			
	operations (Pits, dumps			
	etc)	140 nos	140 nos	Nil
8 f	Baseline information on	140 1100		
	existence of plantation and			
	additional plantation done			
	(Rule 41)			Nil
8g			85% water sprinkling on haul	Nil
8h	on roads to	sprinkling on he haul roads is proposed.	roads is carried out for	
8i	General remarks		aesthetic beauty in and around mines area	Nil
	of inspecting officer on		mainatined.	
	aesthetic beautin and around	СУ		
	mines area			

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	annual returns are to be		Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - 4 (ii) Diploma Mining	found to be in order.	Nil
90	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	utilisation	28.32 ha	
9d	Scrutiny of Annual return on afforestation	140 nos	140 nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		found to be in order.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore		found to be in order.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	production cost Rs 1667	Rs 1667	Nil
9h	Scrutiny of Annual return on fixed assets	Rs 151824387	Rs 151824387	Nil
9k	Scrutiny of Annual return on mining machineries		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

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

MCDR17 Rule 11(1) 06/09/2019

Date : 18/11/19

(RAMKISHAN R)

Indian Bureau of Mines