

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/Jabalpur/Iron Ore -17

Mine code : 30MPR18019

- (i) Name of the Inspecting : **P014**) **JAY KUMAR PANDEY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Punit Kumar Dhruw, Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 15-JUN-22
- (v) Prev.inspection date : 04-FEB-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DHAMDHA 4.54HA. IRON ORE**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : JABALPUR
Village : DHAMDHA
Taluka : SIHORA
Post office : GOSALPUR
Pin Code : 483222
FAX No. :
E-mail :
Phone :
- (f) Police Station : Gosalpur
- (g) First opening date : 09-JUL-15
- (h) Weekly day of rest : SUN
2. Address for : 33 jagran Bhawan
correspondance Press Complex
MP Nagar Bhopal
3. (a) Lease Number : MPR2430
- (b) Lease area : 4.54
- (c) Period of lease : 30
- (d) Date of Expiry : 12-DEC-43
4. Mineral worked : IRON ORE Main
OCHRE Associated
CLAY (OTHERS) Associated
LATERITE Associated

5. Name and Address of the

Lessee : R.M.G.SUPER MINES PVT. LTD.
33, Jagran Bhawan Press
Complex MP Nagar Bhopal
BHOPAL MADHYA PRADESH
Phone:
FAX :

Mining Engineer

Name : Debasis Behera, Full Time
Qualification : BE mining
Appointment/ : 01-JUL-15
Termination date

6. Date of approval of Mining : MP modif under 17(3) MCR 2016 09-FEB-17
Plan/Scheme of Mining : MP review under 17(1) MCR 2016 26-APR-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	14 Boreholes proposed in the year 2018-19.	Not done.	Violation of rule 11(1) pointed out.
1b	Exploration over lease area for geological axis 1 or 2	Proposed	Not done.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Not applicable as proposed exploration for the year 2018-19.The 3.50ha. area considered under G2 level & remaining 1.04ha. to be explored for G2 level.	
1e	Balance reserve as on 01/04/20	Not proposed	Balance reserves as on 01/04/2022 of Iron ore- 1.264 million tonnes & resources 1.514 million tonnes.	
1f	General remarks of inspecting officers on geology, exploration etc	Not proposed	NA	Exploration proposed for the year 2018-19.The 3.50ha. area considered under G2 level & remaining 1.04ha. to be explored for G2 level.Exploration not done as proposed .hence violation of rule 11(1) pointed out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Towards north-east side covering maximum width of lease area & towards south -west side between pillar no. 6 & 7 covering maximum width of lease area in existing pit by forming 07 mineral benches of 4 to 6 mt. hight.	Working done in proposed site by making a large pit of size about 300x40-60x15-24m.The development work extended about 50m. upto pillar no. 5 in south-west side where working not proposed.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not proposed in o/b only 07 benches in mineral.	In actual 02 benches in o/b murum of 3mt. hight & 05 benches in mineral of hight respectively 3mt., 8mt., 3mt., 5mt. hight. In approved mining plan 100% recovery from ROM considered as Iron ore or minor mineral laterite & no waste generation but in actually during ROM 02 o/b murum benches of 03 mt. hight at some places observed and about 15-20% generation of waste observed & reflected in AR. The generated waste stacked just outside of lease boundary between pillar no.1 & 3 in north-western side.	Violation of rule 11(1) pointed out for Waste dumping outside lease area. This aspect was also forwarded to State DGM, Bhopal for appropriate action.
2c	Stripping ratio or ore to OB ratio	Not proposed.	About 1:0.20	
2d	Quantity of topsoil generation in m3	Not proposed	Not generated hence not applicable.	

2e	Quantity of overburden generation in m3	Not proposed	About 20000 tonnes of overburden murum generated.Cumulative about 156000 tonnes so for.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not proposed	NA	In approved mining plan 100% recovery from ROM considered as Iron ore or minor mineral laterite & no waste generation but in actually during ROM, 02 o/b murum benches of 03 mt. hight at some places observed and about 15-20% generation of waste observed & reflected in AR.The generated waste dumped just outside of lease boundary .The violation of rule 11(1) pointed out for bench hight & outside waste dumping. This aspect was also forwarded to State DGM,Bhopal for appropriate action.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	One	One	The violation of rule 11(1) pointed out for hight of one bench more than approved proposals & also waste dumping outside lease area. This aspect was also forwarded to State DGM, Bhopal for appropriate action.
3b	Quantity of ROM mineral production proposed	161032 tonnes Ironore	About 157075 tonnes Ironore	
3c	Recovery of sailable/usable mineral from ROM production	About 85% of ROM	In actual 70% of ROM as 15% waste in form of murum generated other than 15% laterite minor mineral.	
3d	Quantity of mineral reject generation	Not proposed	Not generated hence not applicable.	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	NA	
3f	Quantity of sub grade mineral generation.	Not proposed	Not generated hence not applicable.	
3g	Grade of sub grade mineral generation	Not Proposed.	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanically	Mechanically segrgatted Ironore & minor mineral laterite from loading face itself on the basis of experience.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed.	NA	

3j	Provision of drilling and blasting in mineral benches	Not proposed	Not done as deposit can be excavated by excavator bucket & in some places by rock breker.
3k	Provision of mining machineries in mineral benches	Excavator & dumpers cominations proposed.	Excavator & dumpers cominations deployed as proposed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	07 mineral benches of hight 4 to 6mt. proposed.	In actual 02 benches in o/b murum of 3mt. hight & 05 benches in mineral of hight respectively 3mt., 8mt., 3mt., 5mt. hight
3m	Total area covered under excavation/pits	2.30 ha.	About 2.4ha. area occupied by existing one pit.
3n	Ore to OB ratio for the pit/mine during the year.	Not proposed	About 1:0.20
3o	Total area put in use under different heads at the end of year	Pits-2.30ha. & mineral stacks -.5ha.	In actual Pit-2.40ha. & mineral stacks -.5ha.
3p	Production of ROM mineral during the last five year period as applicable	2017-18-171689t 2018-19-153688t 2019-20-155083t 2020-21-161113t 2021-22-161032t	In actual 2017-18-12800t 2018-19-nil t 2019-20-5000t 2020-21-160000t 2021-22-157075t

3q	General remarks of inspecting officers on method of mining etc.	Not proposed	NA	The violation of rule 11(1) pointed out for hight of one bench more than approved proposals .& also waste dumping outside lease area. This aspect was also forwarded to State DGM,Bhopal for appropriate action.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not proposed	Waste generated during working was stacked outside lease area in three big waste dumps covering about 0.5ha. area.	Violation of rule 11(1) pointed out & also matter was forwarded to State DGM,Bhopal for appropriate action.
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	Waste generated during working was stacked outside lease area in three big waste dumps covering about 0.5ha. area.	
4c	Number of dumps within lease area and outside of lease area	Not proposed	No waste dumps within lease area. 03 waste dumps outside lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Not in UPL & lease area all 03 waste dumps outside lease area.	
4e	Number of active and alive dumps.	Not proposed	Not in ease area all 03 active waste dumps outside lease area.	
4f	Number of dead dumps.	Not proposed	Nil	
4g	Number of dumps established.	Not proposed	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Nil	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management	Not proposed	NA	Waste generated during working was stacked outside lease area in three big waste dumps covering about 0.5ha. area. Violation of rule 11(1) pointed out & also matter was forwarded to State DGM, Bhopal for appropriate action.

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 proposed.	Not applicable as none of the area fully excavated.	
5b	Area under backfilling of mined out area	Not proposed.	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	NA	

5d	Total area fully reclaimed and rehabilitated	Not proposed.	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not proposed.	NA	Backfilling is not proposed and done as none of the area was fully excavated.

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).	Annual report of PMCP for the year 2021-22 to be submitted.	Submitted.	
6b	Area available for rehabilitation (ha) .	Not proposed	Backfilling & rehabilitation is not proposed and done as none of the area was fully excavated.	
6c	afforestation done (ha).	.001ha.	.001ha.	
6d	No. of saplings planted during the year	20 trees	About 10 trees within lease area .	
6e	Cumulative no .of plants	Not proposed	About 100 trees planted so for	
6f	Any other method of rehabilitation	Not proposed	None.	
6g	Cost incurred on watch and care during the year	Not proposed	About Rs 25000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Afforestation proposed in lease boundary.	About 100 tree planted in and outside lease boundary.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Envirnomentl monitoring proposed.	Envirnomentl monitoring carried out as proposed.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not proposed	NA	This is newly opened mine, lessee has done plantation as proposed.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch after sorting grade wise.	Done as proposed.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	During loading from mine face on the basis of working experince done.	
7c	Different grade of mineral sorted out at mines.	Sorting proposed at mine site.	Done as proposed.	
7d	Any beneficiation process at mines .	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not proposed	NA	The ROM mineral Iron ore sorted and dispatched after grading.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	NA as no topsoil in the lease area.	
8b	Concurrent use or storage of topsoil	Not proposed	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Waste generated during working was dumped outside lease area in three big waste dumps covering about 0.5ha. area.	Violation of rule 11(1) pointed out & also matter was forwarded to State DGM, Bhopal for appropriate action.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Backfilling is not proposed and done as none of the area was fully excavated.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	20 trees plantation proposed.	During the year about 10 trees planted & cumulative about 100 trees planted so far	
8g	Survival rate	80%	About 80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling observed on haul roads.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not proposed	NA	The mine working started in 2016-17 ,plantation done.Due to mining i.e. pitting & waste dumping(outside lease area) will naturally affect upto some extent to the aesthetic beauty of the in and around mines area.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR & AR to be submitted online.	Lessee has submitted AR for the year 2021-22 & MR upto May, 2022.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer appointed.	During inspection mining engineer present in the mine & recently geologist appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits-4.54ha. & waste disposal -.4ha.	In actual in pits 2.40ha. & mineral stack 0.5ha. within lease.The informaion on land use pattern is not realistic.	Violation of rule 45(5)(c) pointed out .Lessee has not submitted digital aerial images as required hence violations of rule 34A pointed out
9d	Scrutiny of Annual return on afforestation	10 trees	About 10 trees within lease area.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not proposed	Not generated	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock-nil & graded iron ore lumps-9450 t & fines 40553 t	In actual total stack of graded mineral iron ore about 50,000 tonnes .	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value & ex mine price is Rs. 639/-t for below 55% Fe & Rs. 656/- for 55% to 58% Fe. Cost of production Rs. 468.78/t	The details given seems to be almost correct. Except there is typographical error in figures of sale value of below 55% Fe i.e. 52942070 not 5294207.	Violation of rule 45(5) (c) pointed out .
9h	Scrutiny of Annual return on fixed assets	Fixed asset reflected -0	In actual mining machineries like Backhoe & Dumpers deployed in th lease area.	Violation of rule 45(5) (c) pointed out .
9k	Scrutiny of Annual return on mining machineries	Backhoe & Dumpers	In actual backhoe & dumpers combinations deployed.	

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	04-JUL-22			
MCDR17	Rule 34(2)	04-JUL-22			
MCDR17	Rule 45(5) (c	04-JUL-22			

Date :

(JAY KUMAR PANDEY)

Indian Bureau of Mines