

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JPR/-21/Fe-3

Mine code : 30RAJ13009

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Sushil Kumar Agrawal (Lessee representative) and
Official with
Designation
- (iv) Date of Inspection : 03-OCT-19
- (v) Prev.inspection date : 22-APR-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BAGAWAS**
- (b) **Registration NO.** : **IBM//997/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : RAJASTHAN
District : JAIPUR
Village : BAGAWAS
Taluka : VIRATNAGAR
Post office : BAGAWAS
Pin Code :
FAX No. : Not available
E-mail : bangangagroup@gmail.com
Phone : 9829010037
- (f) Police Station : Sahapura
- (g) First opening date : 17-NOV-69
- (h) Weekly day of rest : SUN
2. Address for : Sh Madhup Joshi
correspondance : B-242, circular Road, Nehru Nagar
Jaipur
3. (a) Lease Number : RAJ0031
- (b) Lease area : 4.99
- (c) Period of lease : 50
- (d) Date of Expiry : 05-SEP-52
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : MADHUP JOSHI
 B-242, CIRCULAR ROAD, NEHRU
 NAGAR JAIPUR JAIPUR
 RAJASTHAN
 Phone:
 FAX :

Owner : Madhup Joshi
 S/O Late R.S.Joshi B-242,
 circular Road, Nehru Nagar
 Jaipur JAIPUR RAJASTHAN
 Phone: 9829010037
 FAX :

Mining Engineer

Name : Santu Lal Saini, Full Time
 Qualification : BE(Mining)
 Appointment/ : 03-OCT-16
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	12-JUL-01
Plan/Scheme of Mining		Existing rule 11 MCDR1988	16-SEP-05
		Mining Scheme rule 12 MCDR1988	17-MAY-12
		MP review under 17(1) MCR 2016	20-JUL-17
		MP modif under 17(3) MCR 2016	13-JUL-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal of exploration during the previous year i.e. 2017-18.	No drilling has been carried out during the year 2017-18.	No backlog.
1b	Exploration over lease area for geological axis 1 or 2	During the year 2018-19, a total of 10 BH has been proposed.	A total of 10 BH have been drilled.	NIL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal of exploration agency and expenditure.	Agency: Soil and Rock probe Engineers, Vikaspuri, New Delhi. The Expenditure occur was Rs. 649826/-	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal about the area to be explored.	A total of 10 BH have been drilled and mineralised area round 2.0 Ha has been explored under G1/G2 level of exploration.	NIL.
1e	Balance reserve as on 01/04/20	As per approved document dated 13/07/2018, the position of reserve and resource as on was 1.50 million tonnes and 0.44 million tonnes respectively.	The position of reserve and resources as on 01/04/2019 was 1.39 million tonnes and 0.44 million tonnes respectively.	Depletion of 112200.000 MT.
1f	General remarks of inspecting officers on geology, exploration etc	During the year 2018-19, a total of 10 BH has been proposed.	A total of 10 BH have been drilled.	NIL.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N90-N200/E60-E155.	During inspection working has been observed within approved limit.	NIL.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil generation. Proposal has been envisaged for separate removal of Waste and Mineral.	No top soil has been generated during the year. Benches have not been maintained as per proposal.	Violation of MCDR issued vide letter dated 18/10/2019.
2c	Stripping ratio or ore to OB ratio	1: 0.033 T/T	1:0.026 T/T	NIL.
2d	Quantity of topsoil generation in m3	No proposal of top soil generation during the reporting year.	Not applicable as no proposal.	NIL.
2e	Quantity of overburden generation in m3	2730 cu.m. (7098 MT)	1154 CuM (3000 MT)	Less generation of waste is due to less production of Iron Ore.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed with 6 mts bench height.	Development has been carried out within approved limits, however benches as proposed have not been maintained.	Benches as proposed have not been maintained Violation of MCDR issued.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single.	Single.	NIL.
3b	Quantity of ROM mineral production proposed	209390 MT	112200 MT.	As reported less production is due to less demand.
3c	Recovery of sailable/usable mineral from ROM production	No specific proposal of recovery of useable Ore during the reporting year.	Not applicable as no proposal.	NIL.
3d	Quantity of mineral reject generation	No proposal of Mineral reject generation during the reporting year.	No Mineral reject has been generated during the reporting year.	NIL.

3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as no proposal of Mineral Reject generation.	Not applicable as no proposal	NIL.
3f	Quantity of sub grade mineral generation.	Not applicable as no proposal of Sub-grade generation.	No Sub-grade has been generated during the reporting year.	NIL.
3g	Grade of sub grade mineral generation	Not applicable as no proposal of Sub-grade generation.	Not applicable as no proposal	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	It was proposed to install 300TPD processing plant within lease area.	No processing has been observed in the lease area. Ore is being taken to the nearby plant.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study has been proposed.	Not applicable as no proposal.	NIL.
3j	Provision of drilling and blasting in mineral benches	Drilling has been proposed by Jack Hammer drill machine and Blasting by Slurry Explosive.	Drilling and blasting is being done as per proposal.	NIL.
3k	Provision of mining machineries in mineral benches	Excavator, Loader, Rock Breaker, Long Hole Drill, Tippers etc.	Excavator, Loader, Rock Breaker, Long Hole Drill, Tippers etc.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches have been proposed to 6 mts.	Benches have not been maintained as per proposal.	Violation of Rile 11(1) of MCDR, 2017 issued vide letter dated 18/10/2019.
3m	Total area covered under excavation/pits	As per approved document dated 13/07/2018, area put under excavation at the end of the plan period is 1.70 Ha.	As on 01/04/2019, area put under excavation was 1.40 Ha.	As per AR 2018-19.

3n	Ore to OB ratio for the pit/mine during the year.	1: 0.033 T/T	1:0.026 T/T	NIL.
3o	Total area put in use under different heads at the end of year	As per approved document dated 13/07/2018, total area proposed to put under different heads at the end of the plan period was 2.35 Ha.	As on 01/04/2019, total area put under different heads at the end of the year was 2.20 Ha.	As per AR 2018-19.
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 47880 MT 2015-16: 70140 MT 2016-17: 75600 MT 2017-18: 183150 MT 2018-19:209390 Mt	2014-15: 53890 MT 2015-16: 79503 MT 2016-17: 74603 MT 2017-18: 76300 MT 2018-19:112200 MT	NIL.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining has been proposed.	Open cast Mining method is being practiced.	No issues related to method of mining.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal topsoil and Mineral reject generation. One OB/Waste dump has been proposed other than exiting one OB/Waste dump.	No top soil and Mineral reject has been generated. OB dumping has not been carried out as per proposal over newly proposed OB/Waste dump.	Violation of rule 11(1) of MCDR, 2017 has been issued vide letter dated 18/10/2019.
4b	Location of topsoil, OB and mineral reject dumps	Dumping of the waste has been proposed between the grid lines N35-80/E145-180.	Dumping of waste has not been carried out over proposed area.	Violation of rule 11(1) of MCDR, 2017 has been issued vide letter dated 18/10/2019.

4c	Number of dumps within lease area and outside of lease area	Two dumps: One exiting dump and one proposed dump.	One old waste dump exists within the lease area. Dumping of waste has not been carried out over proposed area.	Violation of rule 11(1) of MCDR, 2017 has been issued vide letter dated 18/10/2019.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside UPL.	Observed outside UPL.	NIL.
4e	Number of active and alive dumps.	One.	One (already existing dump).	NIL.
4f	Number of dead dumps.	No proposal.	Not applicable.	NIL.
4g	Number of dumps established.	No proposal.	Not applicable.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal of retaining wall and garland drain during the year.	Retaining wall and garland drain has not been observed along the waste dump.	Violation of rule 12(1) of MCDR, 2017 issued vide letter dated 18/10/2019.
4i	Length of Retaining wall or garland drain all along dumps	No proposal of retaining wall and garland drain during the year.	Not applicable as no proposal.	NIL.
4j	Number of settling ponds	No proposal of construction of settling tank.	Not applicable as no proposal.	NIL.
4k	Specific comments of inspecting officer on waste dump management	One new waste dump has been proposed for waste dumping.	Waste dumping has been carried out over existing dump. Also retaining wall has not been constructed.	Violation of MCDR, 2017 has been issued for non-construction of retaining wall vide letter dated 18/10/2019.

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.	No proposal of backfilling during the year as no pit area is fully exhausted.	Not applicable as no proposal.	NIL.
5b	Area under backfilling of mined out area	No proposal of backfilling during the year.	Not applicable as no proposal.	NIL.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation.	Not applicable.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal of full reclamation and rehabilitation	Not applicable as no proposal.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling.	Backfilling has not been observed.	No pit area is matured for backfilling.

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).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2018-19 has been not been submitted.	Violation of rule 26(2) of MCDR, 2017, has been issued vide letter dated 18/10/2019.
6b	Area available for rehabilitation (ha) .	An area of 0.03 Ha. has been proposed afforestation/ rehabilitation . (Ref: Development plan for the year 2018-19).	Afforestation work has not been carried out as per approved plan.	Violation of rule 11(1) of MCDR, 2017 issued vide letter dated 18/10/2019.
6c	afforestation done (ha).	0.03 Ha. area.	NIL.	Violation of rule 11(1) of MCDR, 2017 issued vide letter dated 18/10/2019.
6d	No. of saplings planted during the year	No specific proposal about number of plantation.	No plantation work has been carried out over approved area.	NIL.
6e	Cumulative no .of plants	No specific proposal of cumulative number of plantation.	Plantation work has not been carried out.	NIL.

6f	Any other method of rehabilitation	Other than plantation, no specific proposal of any other method of rehabilitation	Not applicable as no proposal.	NIL.
6g	Cost incurred on watch and care during the year	No proposal.	Not applicable.	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal of backfilling.	No work related to backfilling has been carried out during the year.	NIL.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal of backfilling.	Not applicable as no proposal of backfilling.	NIL.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal of backfilling.	Not applicable as no proposal of backfilling.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal making reservoir.	Not applicable as no proposal of making reservoir.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No any other specific proposal.	Not applicable as no proposal.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	An area of 0.03 Ha has been proposed afforestation/ rehabilitation	Afforestation work has not been carried out as per approved plan.	Violation of rule 11(1) of MCDR, 2017 issued vide letter dated 18/10/2019.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	An area of 0.03 Ha has been proposed afforestation/rehabilitation .	Afforestation work has not been carried out as per approved plan.	Violation of rule 11(1) of MCDR, 2017 issued vide letter dated 18/10/2019.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation.	Plantation has not been carried out.	Violation of rule 11(1) of MCDR, 2017 issued vide letter dated 18/10/2019.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 0.03 Ha has been proposed afforestation/rehabilitation .	Afforestation work has not been carried out as per approved plan.	Violation of rule 11(1) of MCDR, 2017 issued vide letter dated 18/10/2019.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No specific proposal of grade wise sorting.	Not applicable as no proposal.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	A processing plant of 300TPD has been proposed.	No mechanical; processing has been observed.	NIL.
7c	Different grade of mineral sorted out at mines.	No proposal.	Not applicable.	NIL.
7d	Any beneficiation process at mines .	No proposal of any beneficiation at Mine site.	Not applicable.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal of any beneficiation.	No comments to offer as no proposal of any beneficiation.	No issues related to mineral conservation has been observed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation.	Not applicable.	NIL.
8b	Concurrent use or storage of topsoil	Not applicable as no proposal of generation of top soil.	Not applicable.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal of Mineral Reject and fines generation. Waste/OB has been proposed to dump separately.	NO mineral reject and fines has been generated. OB/Waste has been dumped separately.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal of use of overburden/waste rock for restoring the land to its original use.	Overburden, waste rock and Rejects are presently stored at earmarked location.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal of phased reclamation and rehabilitate/a fforestation of lands affected by Mining operations.	Not applicable as no proposal.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No specific proposal of additional plantation. An area of 0.03 Ha. of safety zone has been proposed for afforestation/rehabilitation	Afforestation work has not been carried out over proposed area.	Violation of MCDR issued.
8g	Survival rate	No proposal.	Not applicable.	NIL.
8h	Water sprinkling on roads to control airborne dust	To control the air born dust particle, water sprinkling has been proposed.	Water sprinkling has been observed during the mine inspection.	NIL.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	An area of 0.03 Ha. has been proposed afforestation/rehabilitation .	Afforestation work has not been carried out as per approved plan.	Violation of rule 11(1) of MCDR, 2017 issued vide letter dated 18/10/2019.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, monthly and annual returns to be submitted.	Monthly and annual returns have been submitted for reporting year.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information has been furnished about Mining Engineer.	Mining engineer and Geologist are appointed.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mine working: 1.04 Ha, Dumps: 0.40Ha, Roads, Plants, Buildings, Township: 0.40 Ha.	The land use pattern furnished in the return appears to be correct.	NIL.
9d	Scrutiny of Annual return on afforestation	Within ML: 150 Nos, Outside ML: 75 Nos	Plantation work has not been observed as per approved plan.	Violation of rule 11(1) of MCDR, 2017 issued vide letter dated 18/10/2019.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject quantity is furnished as NIL.	No mineral reject has been generated during the reporting year.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: NIL Graded stock quantity furnished as 12685.00 tonnes.	The furnished information appears to be correct.	NIL.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine Price: RS. 300.00 per tonne and & Production cost is Rs. 282.50 per tonne.	The details of cost of production and Ex-mine price appear to be correct.	NIL.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 497754.00	The furnished information appears to be correct.	NIL.
9k	Scrutiny of Annual return on mining machineries	Air Compressor, Shovel, Loader.	The furnished information in respect of mining machineries appears 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)	18-OCT-19			
MCDR17	Rule 12(1)	18-OCT-19			
MCDR17	Rule 26(2)	18-OCT-19			
MCDR17	Rule 31(4)	18-OCT-19			
MCDR17	Rule 54(c)	18-OCT-19			

Date :

(DILIP JAIN)

Indian Bureau of Mines