

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/BLW-426/IO-01

Mine code : 30RAJ06001

- (i) Name of the Inspecting : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh Denesh S Patil, Mines Agent
Official with
Designation
- (iv) Date of Inspection : 06-MAR-22
- (v) Prev.inspection date : 13-APR-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DHEDWAS**
- (b) **Registration NO.** : **IBM/5710/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **BHILWARA**
- Village : **DHEDWAS**
- Taluka :
- Post office :
- Pin Code :
- FAX No. : **01482248417**
- E-mail : **sunil.pandey@jindalsaw.com**
- Phone : **0148224817**
- (f) **Police Station** : **Pur& Mandal**
- (g) **First opening date** : **15-JUN-11**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **ARAJI NO.9697/6711, NEAR TIRANGA HILLS
VILLAGE-PUR, TEHSIL& DISTRICT-BHILWARA
RAJASTHAN-311802**
3. (a) **Lease Number** : **RAJ3916**
- (b) **Lease area** : **1556.78**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **07-DEC-60**
4. **Mineral worked** : **IRON ORE** **Main**

5. Name and Address of the

Lessee : JINDAL SAW LIMITED
 B-136, QUEENS ROAD VIDHYUT
 NAGAR-B JAIPUR RAJASTHAN
 Phone:
 FAX :

Owner : JINDAL SAW LTD
 JAIPUR RAJASTHAN
 Phone:
 FAX :

Agent : DINESH CHANDRA S PATIL
 NEAR TIRANGA HILLS VILL-
 PUR TEHSIL BHILWARA
 BHILWARA RAJASTHAN
 Phone:
 FAX :

Mining Engineer

Name : NAVEEN AERAN, Full Time
 Qualification : B.E (MINING)
 Appointment/ : 25-JUL-15
 Termination date

Geologist

Name : Ramesh Parihar, Full Time
 Qualification : MSC(geology), PhD
 Appointment/ : 23-NOV-20
 Termination date

Manager

Name : Naveen Kumar Airan
 Qualification : BE Mining
 Appointment/ : 25-JUL-15
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	MP modif under MCR 1960	18-MAY-16
		MP modif under 17(3) MCR 2016	07-FEB-19
		MP review under 17(1) MCR 2016	04-MAR-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	A total of 04 BHs with 637.25 mts of drilling was proposed during the previous year.	A total of 04 BHs with 600 mts drilling length have been drilled during the previous year.	NIL.
1b	Exploration over lease area for geological axis 1 or 2	15 BHs with 2250 mts of drilling.	08 BHs with 1210 mts of drilling.	Due to shortfall in exploration drilling violation of Rule 11(1) MCDR 2017 issued vide letter dated 04/05/2021 by the previous inspecting officer.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Agency: Lessee through contractor. No specific proposal about expenditure.	Agency: Lessee through contractor. Expenditure: 30.86 Lakh	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	An area of 49.25 Ha. of G3 level was proposed to bring in Geological axis 1 or 2 during the period from 2020-21 to 2024-25.	As reported an area of 33.01 Ha of G3 level is yet to bring in Geological axis 1 or 2.	Nil
1e	Balance reserve as on 01/04/20	As per approved document dated 04/03/2020, the position of reserve and resource was 93.54 and 99.67 million tonnes respectively.	The position of reserve and resource as on 01/04/2021 was 89.775 and 99.67 million tonnes respectively.	Depletion from approved figures was 3.765 million tonnes.

1f	General remarks of inspecting officers on geology, exploration etc	Due to shorfall in exploration drilling violation of Rule 11(1) MCDR 2017 issued vide letter dated 04/05/2021 by the previous inspecting officer.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development was proposed over five locations namely Tiranga, Tiranga North, Suras, Dhulkhera South and Dhulkhera North.	Development was carried out within proposed limits of the locations namely Tiranga, Tiranga North, Suras, Dhulkhera South and Dhulkhera North.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil generation. Separate Benches in O/B & Mineral.	No top soil generation. Separate Benches observed in O/B & Mineral.	However the height and width of the benches have not been maintained as per proposal in Suras, Dulkhera North & Dulkhera South Pits, hence violation of rule 11(1) issued vide letter dated 07/04/2022.
2c	Stripping ratio or ore to OB ratio	Year 2020-21: 1:2.30	Year 2020-21: 1:1.54	ton:ton
2d	Quantity of topsoil generation in m3	No proposal of top soil generation.	No top soil was generated.	Nil
2e	Quantity of overburden generation in m3	3386446 Cum	1932697 Cum	Nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The open cast mechanised method has been adopted for the purpose of development which is best suited to the type of deposit.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Five (5):Tiranga, Tiranga North, Suras, Dhulkhera South and Dhulkhera North.	Five (5):Tiranga, Tiranga North, Suras, Dhulkhera South and Dhulkhera North.	NIL.
3b	Quantity of ROM mineral production proposed	39.79 Lakh tonnes	33.95 Lakh tonnes	Nil
3c	Recovery of sailable/usable mineral from ROM production	Entire ROM is proposed to feed in beneficiation plant.	It is observed that ROM was being feed to the beneficiation plant.	NIL.
3d	Quantity of mineral reject generation	No proposal of Mineral Reject generation.	No Mineral Reject generation.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Not applicable.	NIL.
3f	Quantity of sub grade mineral generation.	No proposal of Sub-grade Mineral generation.	No Sub-grade generation.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised for ROM beneficiation.	Mechanised for ROM beneficiation.	NIL.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of any fresh beneficiation study.	Nil	NIL.
3j	Provision of drilling and blasting in mineral benches	Provision of deep hole drilling & blasting given.	Deep hole drilling & blasting is being carried out.	NIL.
3k	Provision of mining machineries in mineral benches	HEMM (Shovel Dumper Combination).	HEMM (Shovel Dumper Combination).	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, suitable for proposed method of mining.	The height of the benches were not maintained as per proposal.	However the height and width of the benches have not been maintained as per proposal in Suras, Dulkhera North & Dulkhera South Pits, hence violation of rule 11(1) issued vide letter dated 07/04/2022.
3m	Total area covered under excavation/pits	98.99 Hect. at the end of the plan period i.e. 2024-25.	Pit- 88.28 hect.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:2.30	1:1.54	Nil
3o	Total area put in use under different heads at the end of year	As per approved document dated 04/03/2020, total area of 430.59 hect has been proposed to put in use under different heads at the end of year 2024-25.	Total area put to use - 296.37 hect. at the end of year 2020-21.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 70 2017-18: 70 2018-19: 70 2019-20: 39.66 2020-21: 39.79 2021-22: 40.78	2016-17: 32.23 2017-18: 31.26 2018-19: 30.90 2019-20: 22.83 2020-21: 33.95 2021-22: 29.79(Till Feb 2022)	All figures in Lakh Tonnes

3q General remarks of inspecting officers on method of mining etc.

The open cast mechanised method of mining has been adopted which is best suited to the type of deposit.

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 of top soil and Mineral reject generation. Separate dumping of OB , tailing proposed.	No top soil and Mineral Reject generation. Separate dumping of OB & tailing observed.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	Tiranga, Suras, Dhulkhera North & South.	Tiranga, Suras, Dhulkhera North & South.	Dumping has been carried out on within proposed limits.
4c	Number of dumps within lease area and outside of lease area	25 dumps within lease area	25 dumps within lease area	OB-20 Tailing-5
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All dumps are on barren land and outside UPL.	All dumps are on barren land and outside UPL.	Nil
4e	Number of active and alive dumps.	25	25	Nil
4f	Number of dead dumps.	No proposal.	None	Nil
4g	Number of dumps established.	No proposal.	Not applicable.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain and rubble stone wall has been proposed.	Garland drains observed along the dumps. Rubble stone wall was not constructed.	Violation of rule 11(1) od MCDR 2017 issued vide letter dated 04/05/2021 by the previous inspecting officer.
4i	Length of Retaining wall or garland drain all along dumps	Rubble stone wall: 1503 mts and Garland Drain: 1201 mts.	Garland drain of around 1500 mts was constructed at necessary place. Rubble stone wall was not constructed.	Violation of rule 11(1) od MCDR 2017 issued vide letter dated 04/05/2021 by the previous inspecting officer.
4j	Number of settling ponds	No such proposal	None	Nil

4k	Specific comments of inspecting officer on waste dump management	Violation of rule 11(1) of MCDR 2017 issued vide letter dated 04/05/2021 by the previous inspecting officer.
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Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal of backfilling.	Mining pits are active. No backfilling done.	NIL.
5b	Area under backfilling of mined out area	No proposal.	None of the area matured for backfilling.	NIL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For Plantation (If any generation).	Top soil has not been generated.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal of full reclamation and rehabilitation	None of the area matured for full reclamation and rehabilitation.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling.	Not applicable as no proposal.	The mining pits are active. None of the area matured for full reclamation and rehabilitation.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP shall be submitted by 1 July for the previous year i.e. 2020-21.	Annual report of PMCP for the year 2020-21 submitted.	PMCP report for the year 2020-21 submitted on 30.07.2021.

6b	Area available for rehabilitation (ha) .	No such proposal given.	None of the area matured for backfilling/rehabilitation.	Nil
6c	afforestation done (ha).	Afforestation has been proposed over 10 Ha. area during the year 2020-21.	Afforestation carried out over 1.5 Ha. area during the year 2020-21.	(1) Figures as per PMCP report submitted. (2) Violation of rule 11(1) issued vide letter dated 04/05/2021 by the previous inspecting officer.
6d	No. of saplings planted during the year	10000 numbers.	1485 nos.	(1) Figures as per PMCP report submitted. (2) Violation of rule 11(1) issued vide letter dated 04/05/2021 by the previous inspecting officer.
6e	Cumulative no .of plants	No specific proposal on cumulative numbers of plantation.	70241 within ML area & 26268 outside of ML area	As on 31.03.2021, as per PMCP report submitted
6f	Any other method of rehabilitation	No any other proposal.	Not applicable.	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.	Not applicable.	NIL.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Not applicable.	NIL.

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal.	Not applicable.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Rain water was accumulation observed at pit bottom.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal.	Not applicable.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Afforestation has been proposed over 10 Ha. area with 10000 number of saplings.	Afforestation carried out over 1.5 Ha. area with 1485 number of saplings.	(1) Figures as per PMCP report submitted. (2) Violation of rule 11(1) issued vide letter dated 04/05/2021 by the previous inspecting officer.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Afforestation has been proposed over 10 Ha. area with 10000 number of saplings.	Afforestation carried out over 1.5 Ha. area with 1485 number of saplings.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation.	Plantation.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment parameters to be monitor for EC and other Conditions compliance.	Environment parameters are being monitored.	NIL.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Violation of rule 11(1) issued vide letter dated 04/05/2021 by the previous inspecting officer for less plantation from approved proposals.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal of sorting is given in approved mining plan.	Entire ROM is being used for captive beneficiation plant.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical for ROM beneficiation.	Mechanical for ROM beneficiation.	NIL.
7c	Different grade of mineral sorted out at mines.	No proposal of grade wise sorting at mine.	ROM feed to beneficiation plant.	NIL.
7d	Any beneficiation process at mines .	Yes, beneficiation process available.	Beneficiation plant of 2.5 MTPA observed consist of crushing, milling (ball and rod), Magnetic separator, Hydro-cyclones, Ceramic Disc filter, Thickner, Tailing filter press etc.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue related mineral conservation observed during current inspection.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation.	Not applicable as no proposal.	NIL.
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of OB & tailing proposed.	Separate dumping of OB & tailing observed.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal for use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use.	Not applicable as no proposal.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Not applicable as no proposal.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	10000 Nos of plants have been proposed to plant.	1485 Nos of plants have been planted.	Violation of rule 11(1) issued vide letter dated 04/05/2021 by the previous inspecting officer for less plantation from approved proposals.
8g	Survival rate	No specific proposal on survival percentage.	About 95%	As per AR 2020-21.
8h	Water sprinkling on roads to control airborne dust	Proposal of wet drilling & water spraying through water tankers.	Wet drilling & water spraying through water tankers is being carried out.	NIL.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is moderate.
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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, 2017 monthly and annual return to be submitted to competent authority.	MR submitted up to March 2022, AR submitted for the year 2020-21.	Timely submission.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details of Mining Engineer, Geologist and Manager has been furnished.	Mining Engineer, Geologist and Manager has been appointed in the mine.	Scrutiny of annual return 2021-22.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/c Workings- 104.89 Ha Waste Disposal- 148.01 Ha Plantation- 70.22 Ha Plant, Building, Road-33.15 Ha	Seems to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	1485 nos. within ML area	Seems correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject reported	Seems correct	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock=1574151. 956 Mt	Seems corrected	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price 4924.44 per tonne of concentrate.	Appears in order.	Nil

9h	Scrutiny of Annual return on fixed assets	Details given	Seems correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Details given	Seems corrected	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)	07-APR-22				
MCDR17 Rule 47(a)	07-APR-22				

Date :

(D R GURJAR)

Indian Bureau of Mines