

**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 : Deputy Controller Mines
- (iii) Accompanying mine : Sh Denesh S Patil, Mines Agent
Official with
Designation
- (iv) Date of Inspection : 02-FEB-24
- (v) Prev.inspection date : 11-SEP-23

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 : **Bhilwara**
- Post office : **Pur**
- Pin Code : **311802**
- FAX No. : **01482248417**
- E-mail : **dinesh.patil@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	:	MP modif under MCR 1960	18-MAY-16
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	07-FEB-19
		MP review under 17(1) MCR 2016	04-MAR-20
		MP modif under 17(3) MCR 2016	30-JAN-23

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	01 Bore hole having 180m.	01 Bore hole having 205m.	Nil
1b	Exploration over lease area for geological axis 1 or 2	4BH, 985mtrs was proposed.	10 BH having 2132m drilling has been carried out.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified in proposal.	Jindal Saw Limited through contractor Expenditure-Rs. 62.78 Lakhs	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	An area of 2.57 Ha. of G3 level & 7.90 hect. under G4 level was proposed to bring in Geological axis 1 or 2 during the period from 2023-24 to 2024-25.	Exploration drilling is going on, At the end of Review of Mining Plan period i.e. 2024-25 entire surfacial area will be covered under G1/G2 level.	Nil
1e	Balance reserve as on 01/04/20	As per last approved Modification of RMP, the position of reserve (as on 01.08.2022) 54.30 million tonnes	The Position of Resreve as on 01.04.2023 is 52.08 million tonnes.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			No issue observed related to geology & exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development was proposed over five locations namely Tiranga, Samodi, Dedhwas, Suras, Dhulkhera South and Dhulkhera North.	Development was carried out within proposed limits of the locations namely Tiranga, Samodi, Dedhwas, 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 proposal of top soil generation. Separate Benches in O/B & Mineral was there.	Nil
2c	Stripping ratio or ore to OB ratio	Year 2022-23: 1:3.23 (T:T)	Year 2022-23: 1:2.23 (T:T)	Due to deviation of Striping Ratio with respect to proposal, violation of Rule 11(1) of MCDR 2017 issued the previous inspection vide letter dated 06.10.2023.
2d	Quantity of topsoil generation in m3	No proposal	Not generated during th year 2022-23.	Nil
2e	Quantity of overburden generation in m3	Year 2022-23: 4776604 cum	Year 2022-23: 3103478 cum	Violation for deviation of OB generation pointed out during the previous inspection vide letter dated 06.10.2023.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development has been carried out on proposed location.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	05	05	Nil

3b	Quantity of ROM mineral production proposed	Year 2022-23: 3992081 T	Year 2022-23: 3759830 T	Nil
3c	Recovery of sailable/usable mineral from ROM production	Entire ROM is proposed to feed in beneficiation plant.	It was 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.	None during the reporting year.	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 machinerries 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. Benches in OB & Mineral was proposed 10m height.	The height of the benches were maintained as per proposal.	Nil

3m	Total area covered under excavation/pits	96.41 Hect. at the end of the year 2022-23.	91.204 hect at the end of year 2022-23.	In AR return 2022-23, Area shwon under O/C working is 100.01 hect which includes 8.8106 hect. mineral storage area.
3n	Ore to OB ratio for the pit/mine during the year.	Year 2022-23: 1:3.23 (T:T)	Year 2022-23: 1:2.23 (T:T)	Due to devaition of Striping Ratio with respect to proposal, violation of Rule 11(1) of MCDR 2017 issued the previous inspection vide letter dated 06.10.2023.
3o	Total area put in use under different heads at the end of year	As per approved document dated 30/01/2022, total area of 342.35 hect has been proposed to put in use under different heads at the end of year 2022-23.	Total area put to use - 315.37 hect. at the end of year 2022-23.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 70 2019-20: 39.66 2020-21: 39.79 2021-22: 40.78 2022-23: 39.92 2023-24: 43.01	2018-19: 30.90 2019-20: 22.83 2020-21: 33.95 2021-22: 33.12 2022-23: 37.60 2023-24: 34.91(up to Jan 24)	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
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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	29 dumps within lease area	29 dumps within lease area	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	On barren land and outside UPL	All dumps are on barren land and outside UPL	Nil
4e	Number of active and alive dumps.	29 dumps	29 dumps	Nil
4f	Number of dead dumps.	No proposal	None	Nil
4g	Number of dumps established.	Not in proposal	None	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain and rubble stone wall has been proposed.	Garland drains and rubble stone wall constructed.	Nil
4i	Length of Retaining wall or garland drain all along dumps	RW: 1480 m GD: 1760 m	RW: 1550 m GD: 1800 m	Nil
4j	Number of settling ponds	No such proposal	None	Nil
4k	Specific comments of inspecting officer on waste dump management			No specific issue observed related to waste dump manangement.

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.	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 in RY.	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 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 on PMCP shall be submitted by 1 July for the previous year i.e. 2022-23.	Annual report of PMCP for the year 2022-23 submitted.	Timely submission.
6b	Area available for rehabilitation (ha) .	No such proposal given.	None of the area matured for backfilling/rehabilitati on.	Nil
6c	afforestation done (ha).	Afforestation has been proposed over 7.1 Ha. area duirng the year 2022-23.	Afforestation carried out over 10.0 Ha. area during the year 2022-23.	Nil
6d	No. of saplings planted during the year	2022-23: 10000 nos.	2022-23: 10111 nos. (within ML area)	Nil
6e	Cumulative no .of plants	No specific proposal on cumulative numbers of plantation.	103721 nos. within ML area	Up to year 2022-23.
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.	Rs. 178.8 lakhs	During the year 2022-23.
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 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 7.1 Ha. area with 10000 number of saplings during the year 2022-23.	Afforestation carried out over 10.0 Ha. area with 10111 number of saplings within ML area during the year 2022-23.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Afforestation has been proposed over 7.1 Ha. area with 10000 number of saplings during the year 2022-23.	Afforestation carried out over 10.0 Ha. area with 10111 number of saplings within ML area during the year 2022-23.	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.			PMCP compliances is satisfactory.

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
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 during the year 2022-23.	10111 Nos. of plants have been planted during the year 2022-23.	Nil
8g	Survival rate	No specific proposal on survival percentage.	About 95%	As per AR 2022-23.
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.

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 Feb 2024, AR submitted for the year 2022-23.	Timely submission.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- NAVEEN KUMAR AIRAN Manager- NAVEEN KUMAR AIRAN Geologist- RAMESH PARIHAR	Correct details furnished	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/c Workings- 100.01 Ha Waste Disposal- 181.93Ha Plantation- 100.25Ha Plant, Building, Road-33.43 Ha	Seems corrected.	Nil
9d	Scrutiny of Annual return on afforestation	Plantation reported in AR 10011(WML) & 1250(OML)	Details seems corrected.	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=1340548. 956 T	Seems corrected	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price 4764.60 per tonne of concentrate.	Appears in order.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets reported: Rs. 7459118299	Seems corrected.	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 cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(D R GURJAR)

Indian Bureau of Mines