

1/37265/2024

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

**MCDR inspection REPORT**

**Jabalpur regional office**

**Mine file No :****Mine code : 38MPR47067**

- (i) Name of the Inspecting : **AKASH ARUN MITTARWAR**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Aditya Pandey (Representative of lessee), Shri  
Official with Ritesh Dixit (Mining Engineer) & Shri Ajay Pandey  
Designation (Geologist)
- (iv) Date of Inspection : 24-MAY-24
- (v) Prev.inspection date : 09-MAY-23

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAJARWARA (2.65 Hect.)**
- (b) **Registration NO.** : **IBM/10911/2012**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village : RAJARWARA  
Taluka : VIJAYRAGHAVGARH  
Post office : RAJARWARA  
Pin Code : 483880  
FAX No. : N.A.  
E-mail : gdixit423@gmail.com  
Phone : 9893312032
- (f) Police Station : V.GARH
- (g) First opening date : 30-SEP-95
- (h) Weekly day of rest : SUN
2. Address for : Smt. Veena Chaturvedi (Lease holder),  
correspondance C/o Sri Gyan Datt Dixit, Tilak Chowk,  
P.O. Kymore, District - Katni (M.P.)- 483880
3. (a) Lease Number : MPR0689
- (b) Lease area : 2.65
- (c) Period of lease : 50 Years (07-DEC-93 TO 06-DEC-43)
- (d) Date of Expiry : 06-DEC-43
4. Mineral worked : LIMESTONE Main

I/37265/2024

## 5. Name and Address of the

Lessee : Smt. Veena Chaturvedi (Lease holder,  
C/o Sri Gyan Datt Dixit, Tilak  
Chowk, P.O. Kymore, District - Katni  
(M.P.)- 483880  
Phone: 9893312032  
FAX : N.A.

Owner : Smt. Veena Chaturvedi (Lease holder),  
C/o Sri Gyan Datt Dixit, Tilak Chowk,  
P.O. Kymore, District - Katni (M.P.)-  
483880  
Phone: 9893312032  
FAX : N.A.

6. Date of approval of Mining Plan/Scheme of Mining	:	MP under rule 22 of MCR1960	03-AUG-89
		Mining Scheme rule 12 MCDR1988	11-JAN-13
		MP under rule 24 of MCR1960	21-OCT-14
		Modification Of Mining Plan under Rule 17(3) Of MCR, 2016	07-DEC-21
		Review of Mining Plan under rule 17(2) of MCR,2016	23-JUN-23

Exploration

I/37265/2024

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	No backlog	Potential Mineralized area explored up to G1 level on the basis of exploration carried out during the year 2022-23 for 1 borehole for 10m given at 100m spacing for G1 level.	
1b	Exploration over lease area for Geological axis 1 or 2.	Proposal for G1 Level	3 core boreholes for 140m proposed during the year 2023-24 & same has been done.	Form I submitted. Geological Study report not submitted. Violation issued under rule 12 of MCDR,2017
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified.	Not specified.	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Nil	
1e	Balance reserves as on 01.04.2023	Nil	Balance reserve as on 01/04/2024 – 612322 tonnes	
1f	General remarks of Inspecting officer on geology, exploration etc.	Potential Mineralized area explored up to G1 Level on the basis of exploration carried out during the year 2022-23 for 1 borehole. Geological Study report not submitted after carrying out the proposed exploration during the year 2023-24; violation pointed out for the same under rule 12 of MCDR,2017		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Development was proposed towards North, West, North-East & South of the pit	Mine development is found lagging with respect to proposal mainly towards North of the pit.	violation pointed out for the same under rule 11(1) of MCDR,2017
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate bench for top soil, Over burden & mineral proposed	Yes, Separate bench for top soil, Over burden & Mineral were found.	
2c	Stripping ratio or ore to OB ratio	1:0.50	1:0.48	
2d	Quantity of topsoil generation in m <sup>3</sup>	4412 cu.m	Around 4000 cu.m	
2e	Quantity of overburden generation	16904 tonnes	Around 15000 tonnes	

**MCDR-MiFLOLST/88/2023-JBP-IBM\_RO\_JBP**

I/37265/2024

	in m <sup>3</sup>			
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development of pit found lagging with respect to approved proposal; violation pointed out for the same under rule 11(1) of MCDR,2017		

**Exploitation**

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed (2023-24)	49335 tonnes	49275 tonnes	
3c	Recovery of Salable/usable mineral from ROM production	The recovery of limestone about 85% from ROM proposed from existing pit.	Recovery of about 85% from ROM reported.	
3d	Quantity of mineral reject generation	Not proposed	Not applicable	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Not applicable	
3f	Quantity of sub-grade mineral generation	Not proposed	Not applicable	
3g	Grade of sub-grade mineral generation	Not proposed	Not applicable	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Not applicable	
3j	Provision of drilling & blasting in mineral benches	proposed	Drilling & blasting carried out as proposed.	
3k	Provision of mining machineries in mineral benches	proposed	HEMM is being used in mineral benches for excavation and transportation Front end loader -1 no. - 1.2 cu.m Dumper -16 no's. -3 tonne Water Tanker – 1 – 500 litre	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	Height of o/b & mineral benches is suitable for method of mining as proposed.	
3m	Total area covered under excavation /pits	1.65 hect.	Around 1.60 hect.	

I/37265/2024

3n	Ore to OB ratio for the pit/mine during the year	1:0.50		1:0.48	
3o	Total area put in use under different heads at the end of year	Area under mining – 1.65 hect; OB/Waste dump - 0.43 hect; Infrastructure – 0.01 hect; Roads – 0.10 hect; Green belt – 0.12 hect; Others – 0.05 hect.		Area under mining – 1.10 hect; OB/Waste dump - 0.14 hect; Infrastructure – 0.01 hect; Roads – 0.10 hect; Green belt – 0.12 hect; Others – 0.05 hect.	
3p	Production of ROM mineral during	2019-20	Nil	2019-20 - Nil	
	last five-years period, as Applicable	2020-21	Nil	2020-21- Nil	
		2021-22	11662 t	2021-22 - Nil	
		2022-23	58825 t	2022-23 – 49005 t	
		2023-24	49335 t	2023-24 – 49275 t	
3q	General remarks of inspecting officer on method of mining etc	Category A mines having adopted mechanized method of mining.			

#### **Solid Waste Management-Dumping**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of top soil and OB were proposed.	Separate dumping of top soil and OB were observed.	
4b	Location of topsoil, OB & mineral reject dumps	Top soil proposed for spreading & bund along the periphery of lease boundary. Location of OB/Waste is proposed in N-W of the pit near to the BP no. 14,15,16 & 17 & other OB/Waste is proposed towards south of the pit near to BP no. 7,8,9 & 10	As per proposal	
4c	Number of Dumps within lease area and outside lease area	Two dump of OB waste within lease area	As per proposal	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside of the ultimate pit limit of lease area.	As per proposal	
4e	Number of Active & Alive dumps	02 dumps	02 dumps	
4f	Number of dead dumps	Not proposed	Not applicable	
4g	Number of dumps established	Not proposed	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Retaining wall not proposed. Garland drain of 500 m length is proposed	Garland drain not constructed.	violation pointed out for the same under rule 11(1) of MCDR,2017

I/37265/2024

4i	Length of Retaining wall or garland drain all along dump	Retaining wall not proposed. Garland drain of 500 m length is proposed	Garland drain not constructed.	violation pointed out for the same under rule 11(1) of MCDR,2017
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific commends of inspecting officer on waste dump management	Waste dump generated are dumped on proposed location for dumping.		

**Solid Waste Management-Backfilling**

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Full extraction of mineral proposed	full extraction of mineral under progress up to the UPD	
5b	Area under backfilling of mined out area	Not Proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Nil	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Top soil used for spreading & bund making while OB waste generated are stacked at earmarked location for future backfilling and plantation purpose.		

**Progressive Mine Closer Plan**

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E (2). Details should be given in the format as given in Annexure-20	Proposed	Submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Not proposed	Not applicable	
	ii) Afforestation done (ha.)	Not Proposed	Not Proposed	
	iii) No. of saplings planted during the year	Not Proposed	Not Proposed	
	iv) Cumulative no. of plants	Not specified	Not specified	
	v) Any other specific method of rehabilitation	Not proposed	Not applicable.	
	vi) Cost incurred on watch & care during the year	Not Specified.	Not given.	
	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D)	Not Proposed	Not Applicable	

I/37265/2024

6C	ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	Not Proposed  Not Proposed  Not proposed  Not proposed	Not Applicable  Not Applicable  Not Applicable  Not Applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	250 Saplings proposed Not proposed Not proposed	250 Sapling planted Not Applicable Not Applicable	Plantation done on Barrier zone near BP no. 1/1 to 16 as per proposal.
6e	Compliance of Environment monitoring (core zone & bufferzone)	Proposed.	Within prescribed limit.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	It was observed during inspection that the lessee has been carrying out PMCP related works as per proposal.		

#### Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or gradewise sorting within lease area	ROM mineral dispatch to steel and cement industries.	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sort out at mine	Cement grade	Cement grade	
7d	Any beneficiation process at mines	Not Proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The limestone dispatched to cement and steel industries directly		

#### Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Proposed	As per proposal	
8b	Concurrent use or storage of topsoil	Top soil is proposed for spreading & bund making purpose.	As per proposal	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Separate dumping of OB is proposed.	As per proposal	

I/37265/2024

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	As per proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Not applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	250 sapling were proposed during the year	250 saplings planted	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	with the use of water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Plantation was done in the green belt. Needs improvements for aesthetic beauty in and around mine area.		

**Compliance of Rule 45:-**

S.N.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted both Monthly and Annual Return	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist	Ritesh Dixit (Mining Engineer) & Shri Ajay Pandey (Geologist)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Area under mining – 1.10 hect; OB/Waste dump - 0.14 hect; Infrastructure – 0.01 hect; Roads – 0.10 hect; Green belt – 0.12 hect; Others – 0.05 hect.	
9d	Scrutiny of Annual return on afforestation	Yes	160 trees at the end of the year	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	ROM closing stock as on 31.03.2024 – 8399.140 tonnes of cement grade	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex mine price – 271.22 /- Cost of production – 233.33/-	



## MCDR-MiFLOLST/88/2023-JBP-IBM\_RO\_JBP

I/37265/2024

9h	Scrutiny of Annual return on fixed assets	Yes	Value of Fixed Assets* (₹ 1603683)	
9k	Scrutiny of Annual return on mining machineries	Yes	Front end loader -1 no. - 1.2 cu.m Dumper -16 no's. -3 tonne Water Tanker – 1 – 500 litre	

Details of Violations observed during current inspection and compliance position of violation pointed out:-

Rule – 11(1) of MCDR 2017 dated – 21/06/2024

Rule – 31(4) of MCDR 2017 dated – 21/06/2024

Rule – 33 of MCDR 2017 dated – 21/06/2024

Rule 12 of MCDR 2017

Name: Akash Arun Mittarwar

Designation: Assistant Mining Engineer

