

MCDR-MiFLOLST/1/2023-JBP-IBM_RO_JBP
INDIAN BUREAU OF MINES

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

1/28130/2024

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-176

Mine code : 38MPR35222

- (i) Name of the Inspecting : G007) RAGHUBIR SHARAN GARG
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Ajay Pandey, Geologist and Satyam Shukla, Mining
Official with
Designation
- (iv) Date of Inspection : 21-FEB-24
- (v) Prev.inspection date : 08-OCT-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BHATURA
- (b) Registration NO. : IBM/1126/2011
- (c) Category : A Mechanized
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : BHATURA
Taluka : MAIHAR
Post office :
Pin Code :
FAX No. : 07626277177
E-mail : pd_awasthi@rediffmail.com
Phone : 08458989480
- (f) Police Station : BADERA
- (g) First opening date : 01-FEB-84
- (h) Weekly day of rest : SUN
2. Address for : Prabhu Dayal Awasthi
correspondence : Kymore Jhukehi road,village Nanhwara
Distt Katni, MP 483775
3. (a) Lease Number : MPR0048
- (b) Lease area : 2.74
- (c) Period of lease : 20
- (d) Date of Expiry : 31-JAN-14
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : PRABHU DAYAL AWASTHI
VILL. MOHANTOLA TEHSIL
VIJAYRAGHOGARH DISTT.
KATNI,MP KATNI MADHYA
PRADESH
Phone: 8458989480
FAX : 07626277177

Owner : Prabhu Dayal Awasthi
VILLAGE
MOHANTOLA,VIJAYRAGHOGARH
DISTT KATNI ,MP SATNA
MADHYA PRADESH
Phone: 8458989480
FAX : 07626277177

6. Date of approval of Mining
Plan/Scheme of Mining

Renewal under rule 24 MCR1960	31-OCT-07
Mining Scheme rule 12 MCDR1988	06-SEP-12
Renewal under rule 24 MCR1960	25-JUN-14
MP review under 17(1) MCR 2016	05-JAN-18
MP review under 17(1) MCR 2016	01-APR-23

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	One bore hole	One borehole.	-
1b	Exploration over lease area for geological axis 1 or 2	One bore hole	After completion of borehole entire lease area proven under G2 level.	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Gem Consultant Expenditure Rs. 132396/-	One bore hole carried out in year 2022-23.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposed	With completion of proposed borehole entire lease area explored under G2 level.	-
1e	Balance reserve as on 01/04/20	As on 01/04/2023 122 105670T 222 1011608T	As on 01/04/2023 122 108305T 222 1011608T	Two additional exploratory boreholes have been put in the lease area but based on results of exploration Geological study report has not been submitted by the lessee. Violation of rule 12(4B) pointed out on 29/02/2024

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1f General remarks of inspecting officers on geology, exploration etc

The limestone in the lease is of Kymore formation with dipping towards north. Upto 2022-23 entire mineralised area already proven under G2 level. One borehole is proposed against 2023-24 to upgrade reserve into G1 level. Upto the date of inspection proposed exploratory work not commenced. Matter discussed during field visit and accordingly advise extended for the completion of the same upto 31/03/2024. With completion of this additional borehole entire mineralised area will be under G1 level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Advancement of western faces further west of the area covering an near by area covering BP.No.7,8 &12	Instead of lateral advancement pit was reportedly deepened upto 356mRL.	Deviation pointed out through violation of rule 11(1) vide letter dated 29/02/2024. It is fact that RMP of the lease area had been prepared and got approved with proposal period from 2023-24 to 2027-28 in which such deviations have taken into cognizance

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	Separate benches in top soil, OB and mineral were noticed.	Pit was found water logged.
2c	Stripping ratio or ore to OB ratio	1:0.61	1:0.03	Less development. Deviation pointed out through violation of rule 11(1) vide letter dated 29/02/2024.
2d	Quantity of topsoil generation in m3	21364cum	1000cum	Less development, violation of 11(1) pointed out.
2e	Quantity of overburden generation in m3	Top soil is itself a OB Quantity 21364cum	1000cum.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Almost existing pit had touched lease boundary lines in all the three directions such as in North, East and South. Advancement of western face that too for a small face length (about 50-70m) and advancement of about another 50m is remains. On pit bottom at about 352mRL shale is reportedly exposed and further exploitation of mineral is possible from above stated area only.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One pit.	One pit.	-
3b	Quantity of ROM mineral production proposed	34885T	32250T	There is no significant deviation on this account.

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3c	Recovery of sailable/usable mineral from ROM production	95%	95%	-
3d	Quantity of mineral reject generation	Not proposed	NA	--
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	NA	-
3f	Quantity of sub grade mineral generation.	Not proposed	NA	-
3g	Grade of sub grade mineral generation	Not proposed	NA	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	As per proposal.	-
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	Proposed	As per proposal.	-
3k	Provision of mining machineries in mineral benches	Proposed Shovel dumper combination.	As per proposal.	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes ,Proposed	As per approved proposals.	-
3m	Total area covered under excavation/pits	2.18hect	2.18hect	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.61	1:0.031	-

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3o	Total area put in use under different heads at the end of year	2.19hect	2.19hect	-
3p	Production of ROM mineral during the last five year period as applicable	2018-19 50065T, 2019-20 50233T 2020-21 50233T 2021-22 34885T & 2022-23 34885T	2018-19 18750 T 2019-20 7950 T 2020-21 10753 T 2021-22 32040T & 2022-23 32250T	-
3q	General remarks of inspecting officers on method of mining etc.			Shovel dumper combination is adopted for the exploitation of mineral from the lease area which is effective combination for this type of deposit. Constraint of available area for mining are there. Development work is also lacking.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed backfilling with generated top soil.	As per proposal.	-
4b	Location of topsoil, OB and mineral reject dumps	Proposed backfilling with generated top soil.	As per proposal.	-
4c	Number of dumps within lease area and outside of lease area	Not proposed.	NA	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed.	NA	-
4e	Number of active and alive dumps.	Not proposed.	NA	-

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4f	Number of dead dumps.	Not proposed.	One old waste dump of 40x30x3m. size present in the lease area as per proposal it should be rehandled for backfilling.	-
4g	Number of dumps established.	Not proposed.	NA	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	NA	-
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	NA	-
4j	Number of settling ponds	Not proposed	NA	-
4k	Specific comments of inspecting officer on waste dump management			There is no proposal for dumping only backfilling proposed & one old waste dump of 40x30x3m. size present in the lease area should be rehandled for backfilling as proposed.

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.	Backfilling proposed against high wall faces to reduce height of benches.	The proposed backfilling was carried out in some extent alongwith backfilling in old backfilled area.	-
5b	Area under backfilling of mined out area	300 sq.m.	Complete proposed backfilling not carried out so far. Backfilling work is in progress.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	As per proposal.	-

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5d	Total area fully reclaimed and rehabilitated	Not proposed	Plantation of show babools over an area of about 0.4hect degraded area backfilled upto certain extent were observed during inspection. A good no. of sapling also planted on adjoining to the lease particularly on Northern and north western part of the lease area.	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			About .4 ha. mined out pits area backfilled & rehabilitated by about 1000 plantation over it.

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).	Proposed	PMCP report submitted with AR,2022-23.	-
6b	Area available for rehabilitation (ha) .	Not proposed	About 0..4 ha. mined out pits area backfilled & rehabilitated by about 1000 plantation over it.	
6c	afforestation done (ha).	Not proposed	About 100 new plantation done over backfilled area. Plantation also done outside of lessees own land done in vicinity of lease area.	-
6d	No. of saplings planted during the year	Not proposed	about 100 saplings planted .	
6e	Cumulative no .of plants	Not proposed.	About 1400 Nos.	Toal plantation including within and outside of lease area.
6f	Any other method of rehabilitation	Not proposed.	NA	-
6g	Cost incurred on watch and care during the year	Not proposed.	Not available.	-

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed.	NA	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	About 0.4hect mined out area found partially backfilled and a good no. of plantation carried out over it.	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	So far about 0.4hect mined out area found partially backfilled and about 1400 plantation of show babool have done on such partially backfilled area.	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Although about 0.6hect portion of the pit was found water logged but complete extraction of mineral from the entirebottom of the pit is reportedly yet to be carried out.	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	NA	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed.	NA	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	NA	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	NA	-

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6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Records of environmental monitoring checked during inspection of the mine.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Compliance on PMCP proposals are in progress.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch Not proposed. Graded ore dispatch quantity- 34885T	ROM mineral dispatch Nil Sorted BF grade limestone from ROM- 32250T	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed.	manual sorting carried out whenever required.	-
7c	Different grade of mineral sorted out at mines.	Not proposed	Not applicable	
7d	Any beneficiation process at mines	Not proposed.	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no issue related with mineral conservation. Manual sorting whenever required is carried out and thereafter it is sold to the concerned.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	As per proposal.	-
8b	Concurrent use or storage of topsoil	Concurrent use of top soil proposed.	As per proposal.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Concurrent use of soil (OB) for backfilling proposed	As per proposal.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	As per proposal. However due to less development work restoration of affected land to the extent of proposal not achieved.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	.4 ha. area backfilled & rehabilitated so far.	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed	About 1400 planted big/small trees over backfilled area as well as over adjoining own land out side of the lease area present in the lease area.	-
8g	Survival rate	85%	85%	-
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling on haul roads done as per requirement.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The lessee has planted about 1400 trees over backfilled area and outside lease area gives very good aesthetic beauty in and around mine area.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Submission of Monthly and Annual returns	Lessee submitted Monthly returns upto Dec,2023 & annual returns for the year 2022-23.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not given	Mining Engineer and Geologist both are appointed but details are not given in AR.	Deficiencies pointed out through violation of rule 45(7) vide letter dated 29/02/2024.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	(i) Already exploited & abandoned by O/C mining 0 (ii) Covered under current (O/C) Workings 2.18 (iii) Reclaimed/Rehabilitated 0 (iv) Used for waste disposal 0.26 (v) Occupied by plant, buildings, and roads 0.1 (vi) Used for any other purpose (specify)- Platation 0.2	-
9d	Scrutiny of Annual return on afforestation	Given	100	ok
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Reject quantity Nil	ok
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM stock Nil Graded stock 262.29T	ok

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Sale value Rs. 370/- Ex Mine Price Rs. 370/- Cost of production Rs. 274/60	In calculation of cost of production computation of direct cost found incorrect. similarly in calculation of cost of production expenses in explosive had not taken into account. Both the points have raised through violation of rule4597) vide letter dated 29/02/2024.
9h	Scrutiny of Annual return on fixed assets	Given	Fixed assets Rs. 1910161/-	ok
9k	Scrutiny of Annual return on mining machineries	Given	Dumper 10 (10T) Shovel 1 (1.2cum)	ok

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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)	29-FEB-24				
MCDR17 Rule 12(4)	29-FEB-24				
MCDR17 Rule 31(4)	29-FEB-24				
MCDR17 Rule 45(7) (a)	29-FEB-24				

Date :**(RAGHUBIR SHARAN GARG)**

Indian Bureau of Mines