

MCDR-MiFLOLST/7/2022-JBP-IBM_RO_JBP
INDIAN BUREAU OF MINES

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/24301/2024

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-101

Mine code : 38MPR18133

- (i) Name of the Inspecting : G007) RAGHUBIR SHARAN GARG
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Priyadarshi Tiwari, Mining, Engineer of the comp
Official with
Designation
- (iv) Date of Inspection : 27-DEC-23
- (v) Prev.inspection date : 14-SEP-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KACHGAWAN [7.42]
- (b) Registration NO. : IBM/5445/2011
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : KACHGAWA
Taluka : VIJRAOGARH
Post office : DIWAN SIDING
Pin Code :
FAX No. : 07626271288
E-mail : -nmdubashmaiher@ gmail.com
Phone : 9285246289
- (f) Police Station :
- (g) First opening date : 06-SEP-80
- (h) Weekly day of rest : THU
2. Address for correspondence : M/S N.M.DUBASH STONE & LIME CO.PVT.LTD.
STATION ROAD, P.O. MAIHAR,
DIST. SATNA (M.P.) 485771
3. (a) Lease Number : MPR1987
- (b) Lease area : 7.42
- (c) Period of lease : 50
- (d) Date of Expiry : 05-SEP-30
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

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5. Name and Address of the

Lessee : N.M.DUBASH STONE & LIME CO.PVT.LTD.
STATION ROAD P.O. MAIHAR
SATNA MADHYA PRADESH
Phone: 07626271277
FAX : 07626271288

Owner : N.M.DUBASH STONE & LIME CO.PVT.LTD.
STATION ROAD P.O. MAIHAR
SATNA MADHYA PRADESH
Phone: 07626271277
FAX : 07626271288

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	18-AUG-00
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	26-SEP-14
		Mining Scheme rule 12 MCDR1988	13-APR-15
		MP modif under 17(3) MCR 2016	15-OCT-20

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed	NA	-
1b	Exploration over lease area for geological axis 1 or 2	Not proposed, entire mineralized area already explored under G1 level.	NA	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	NA	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed as entire mineralized area already explored under G1 level.	NA	-
1e	Balance reserve as on 01/04/20	As on 01/04/2023 111 609273 T 211 1496625 T	As on 01/04/2023 111 0 827214 T 211 1496625 T	Less production.
1f	General remarks of inspecting officers on geology, exploration etc			Based on the mineralization established in working pits reserves/resources have been estimated. Only proved mineralized area by working pits to be considered.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Quarry No.3 lies on western part of the lease area.	Quarry No.3 lies on western part of the lease area.	-

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in top soil/ overburden and in mineral proposed.	As per proposal. However, advancement of benches were seen less than the proposal resulting in certain part of the pit mineral benches almost in a stage of merger.	Observed deviation pointed out through violation of rule 1191) of MCDR,2017 vide letter dated 10/01/2024
2c	Stripping ratio or ore to OB ratio	1:0.40	1:0.33	Less development, deviation pointed out.
2d	Quantity of topsoil generation in m3	434cum	Not Available	-
2e	Quantity of overburden generation in m3	19709cum	15310cum	Less development, deviation pointed out.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Actual development is comparatively less resulting position of merger of mineral benches arisen. There is a need of regular development of top soil/ overburden bench advancement.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	There are another two quarries exist in the lease area but mining operation are being carried out in quarry no.3 in which approved proposal against the year under review are there.
3b	Quantity of ROM mineral production proposed	125038 T	115390T	92.25% achievement.
3c	Recovery of sailable/usable mineral from ROM production	75%	Reportedly as per proposal	-
3d	Quantity of mineral reject generation	Not proposed.	NA	-

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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	Not proposed	NA	-
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 with 2.4-2.5mX2.0-2.2mX2.8-2.9m blasting parameters.	As per approved proposals.	-
3k	Provision of mining machineries in mineral benches	Proposed-Wagon Dril, HYD. Excavator - 1.2cum bucket capacity and 10 tonner dumpers combination	As per approved proposals.	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height 5 to 5.5m	As per proposal. However at some places mineral benches were seen almost in a position of merger.	Deviations pointed out.
3m	Total area covered under excavation/pits	5.50hect (upto the end of March, 2025.	4.48hect	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.40	1:0.33	-
3o	Total area put in use under different heads at the end of year	6.78hect upto the end of March, 2025	6.28hect.	-

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3p	Production of ROM mineral during the last five year period as applicable	Year wise proposed production	Year wise actual production	-
		2018-19	52430 T	
		2019-20	138747 T	
		2020-21	NilT	
		2021-22	53478 T	
		2022-23	115390 T	
		2020-21		
		119530 T		
		2021-22		
		142240 T		
		2022-23		
		125038 T		

3q	General remarks of inspecting officers on method of mining etc.	
		Open cast mechanised working proposed by using Excavator & dumper combination with drilling & blasting using wagon drill. Three different working pits were already developed & mineralisation proved up to approximate depth of 28mts. Less advancement of mineral bench with respect to preceding mineral bench were seen resulting merger of mineral benches at some places almost happen. Statutory barrier zone was also found degraded during the year Hence, violation pointed out under rule 11(1) of MCDR 2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not proposed as entire envisaged top soil and OB/IB were proposed for making of bund and backfilling of degraded 7.5m statutory barrier zone along with backfilling of mined out area as proposed in approved Document- respectively Mineral reject generation not envisaged.	As per proposal	-
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	NA	-
4c	Number of dumps within lease area and outside of lease area	Five old dumps within lease area (s per approved RMP).	Five old dumps within lease area.	There is no dump outside of the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All the old five dumps lie partly within UPL and partly outside of the ultimate pit limit.	Status of old dumps as on date remains same.	-
4e	Number of active and alive dumps.	Not proposed	NA	-
4f	Number of dead dumps.	Not proposed.	NA	-
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	-

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Number of
settling ponds

Not proposed NA

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4k	Specific comments of inspecting officer on waste dump management	Considerable amount of OB and top soil generated in the past were previously dumped at earmarked location. Some dumps have been merged. External dumping against the year was not proposed. Backfilling of degraded 7.5m barrier zone was reportedly carried out with OB/ mine waste generated during the year.
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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.	0.25hect	0.23	Backfilling of degraded portion of 7.5m statutory barrier zone as well as proposed excavated portion of pit were carried out.
5b	Area under backfilling of mined out area	0.17hect	0.17hect	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	NA	As per proposal top soil utilised for making of proposed bund.
5d	Total area fully reclaimed and rehabilitated	0.11	A few saplings were seen over this backfilled area.	On 0.11hect backfilled area afforestation proposed

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling and reclamation of mined out area commenced in the light of proposal. Degraded portion of 7.5m barrier zone was proposed for backfilling that work was also seen during inspection of the mine.
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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	Yes, PMCP report has been found submitted.	-
6b	Area available for rehabilitation (ha) .	Not proposed.	NA	-
6c	afforestation done (ha).	0.285hect	0.285hect	Plantation on statutory barrier zone & saplings planted over backfilled portion of mined out area.
6d	No. of saplings planted during the year	285	395	-
6e	Cumulative no .of plants	505	395	-
6f	Any other method of rehabilitation	Not proposed.	NA	-
6g	Cost incurred on watch and care during the year	Not proposed.	NA	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.25hect	0.23hect	-

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.17hect	0.17hect	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.11hect	0.11hect	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	NA	-
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	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Record of periodical environmental monitoring verified.	-

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP compliances were observed and found more are less as per approved proposals.
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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral dispatch- 125038 T Grade wise sorting - Not proposed	ROM Mineral dispatch- Nil Grade wise dispatch - 115794 T BF grade Lst	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	NA	*
7c	Different grade of mineral sorted out at mines.	Not proposed	NA	BF Grade limestone supplied to consumers.
7d	Any beneficiation process at mines	c	NA	*
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no issues related with mineral conservation and beneficiation. Entire mineral produce have good market.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Reportedly entire top soil generated during mining operation utilised in making of bund as per approved proposal.	-

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8b	Concurrent use or storage of topsoil	Proposed.	Entire top soil generated during the year utilised in preparation of bund.	As per approved proposal.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumping of OB not proposed against the year.	Not applicable	There is no mineral reject and fines generation within lease area.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling of mined out area as well as degraded 7.5m statutory barrier zone with OB/IB /mine waste proposed.	As per approved proposal.	*
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation of mined out portion of pit proposed.	As per approved proposals.	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed plantation of 285 saplings	Planted 395 saplings.	*
8g	Survival rate	Not proposed	50%	-
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling on haul roads were seen during mine inspection.	-

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8i General remarks of inspecting officer on aesthetic beauty in and around mines area

Aesthetic beauty of the area is not good. There are no. of mining leases in the area and almost operative. Almost 70% of the area concerted into pit or dump. Reclamation and rehabilitation phase of mined out area are on beginning stage as deposition of limestone up to deep. Although, efforts towards reclamation and rehabilitation started in few mines but for remarkable result it will take time.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly Returns up to Nov, 2023 and Annual Returns up to 2022-23 found submitted	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	ME-Shri Vinod Kumar Patel and Geologist -Shri Ratnesh Kumar Pandey	Shri Vinod Patel had left the mine and Shri Jagannath Patel, B.Tech(mining) has joined the mine w.e.f.11/04/2023. Notice of appointment has been submitted by the lessee.

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area utilisation (hect) : (i) Already exploited and aband. by opencast mining 0.000 (ii) Covered under current (O-C) Workings 4.480 (iii) Reclaimed-rehabilitated 0.410 (iv) Used for waste disposal 0.848 (v) Occupied by plant, buildings, buildings and roads 0.100 (vi) Used for any other purpose (specify) GREEN BELT 0.220 (vii) Work done under PMCP during the year 0.230	-
9d	Scrutiny of Annual return on afforestation	Given	395	Survival rate is only 50%
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Mineral reject generation Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM stock Nil Graded ore 30478.69 T , BF grade Limestone	Deficiencies about fixed assets value, Grade-wise Production, Dispatches & Stocks, calculation of cost of production etc. on AR 2022-23 were observed and accordingly pointed out through violation of rule 45(7) vide letter dated 01/08/2023 followed by SCN and ultimately lessee had replied the SCN and considered complied on 04/10/2023

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Sale value and Ex Mine Price both are same as Rs. 395/- Cost of production Rs. 318/79	-
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets Rs. 0	Information given is not correct. Matter has been discussed at field and Mining Engineer of the company ensured about repeat ion of mistake in AR of coming years.
9k	Scrutiny of Annual return on mining machineries	Given	A. COMPRESSOR 325.000 CUM/MN 1No. BACK HOE 0.900 CUM 1No. DUMPER 16.000 TONNE 4No. F. END LR 2.000 CUM 1 No W. TANKER 3000.000 LITRE 1 No	-

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show Couese position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	10-JAN-24			
MCDR17	Rule 12(4)	10-JAN-24			
MCDR17	Rule 27(2)	10-JAN-24			
MCDR17	Rule 34(1)	10-JAN-24			

Date :**(RAGHUBIR SHARAN GARG)**

Indian Bureau of Mines