

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KATNI/LST.291

Mine code : 38MPR47134

- (i) Name of the Inspecting : **G007**) **RAGHUBIR SHARAN GARG**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Shriniwas Mishra, Geologist, Shri Mritunjay Pras
Official with
Designation
- (iv) Date of Inspection : 04-DEC-21
- (v) Prev.inspection date : 07-FEB-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DURGATI PIPARIA (41.39 HA)**
- (b) **Registration NO.** : **IBM/6898/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village : DURGATI PIPARIA
Taluka : DHIMAR KHEDA
Post office : NIWAR
Pin Code :
FAX No. : 07622222771
E-mail : bagaria_group@rediffmail.co
Phone : 07622408167
- (f) Police Station : NIWAR
- (g) First opening date : 30-MAR-13
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number : MPR2438
- (b) Lease area : 41.39
- (c) Period of lease : 20
- (d) Date of Expiry : 29-JAN-29
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : SHREE KAMAL LIME INDUSTRIES
SHREE KAMAL LIME
INDUSTRIES. STATION ROAD,
KATNI KATNI MADHYA PRADESH
Phone:
FAX :

Owner : KAMAL LIME INDUSTRIE
Prop. KISHORE KUMAR
BAGARIA, STATION ROAD
KATNI MADHYA PRADESH
Phone: 07622-223767/22
FAX : 07622-222771

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 26-SEP-14
Plan/Scheme of Mining MP modif under 17(3) MCR 2016 09-MAY-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 bore holes in 2018-19	Not done	As per approved MPLN, there were proposal of exploration of total 10 borehole for 18-19 which have not been carried out so far. V/L of such deviation have been pointed out vide letter dated 08/12/2021
1b	Exploration over lease area for geological axis 1 or 2	Total 10 boreholes were proposed in approved period to explore entire area in G1 level	Not done	Violation pointed out
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	NA	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Total 10 boreholes were proposed to explore entire area in G1 level. By the end of 2018-19	Not done	violation pointed out
1e	Balance reserve as on 01/04/20	As on 01/04/2018 122-177131 222-402600 333-198750	As on 01/04/2021 122-170881 222-402600 333-198750 As on 01/04/2021 122-170881 222-402600 333-198750	Unit in tonnes

1f	General remarks of inspecting officers on geology, exploration etc	Although there were proposal of exploration to carry out total 10 borehole in 18-19 which have not been carried out so far. Deviation pointed out vide V/L dated 08/12/21
----	--	---

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	workign was proposed in the southern portion of the ML area in continuation to the pit 1	working was in continuation to the pit 1 towards south direction	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposed	separate benches are formed in the top soil 1.5-2.0 meter and mineral benhces 4-6 meter	-
2c	Stripping ratio or ore to OB ratio	1:0.02	1:0.09	-
2d	Quantity of topsoil generation in m3	0	0	Lateritic soil generated and dumped alongwith overburden / interburden.
2e	Quantity of overburden generation in m3	1464CUM	206CUM	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			workign was in the proposed location however the achievemnet ration is lower than proposal

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit no 1	Single pit no 1	-
3b	Quantity of ROM mineral production proposed	14685tonne	2100tonne	
3c	Recovery of sailable/usable mineral from ROM production	80 %	75-80%	
3d	Quantity of mineral reject generation	Not Proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable as generation of mineral reject not anticipated.	Nil	
3f	Quantity of sub grade mineral generation.	Not proposed	Nil	
3g	Grade of sub grade mineral generation	Not Applicable as generation of sub grade not anticipated	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manula hand sorting proposed	manula hand sorting was adopted to segragate limestone from dolomite and waste	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	nil	
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting in mineral benches proposed	As perproposal drilling and blasting in mineral benches reportedly carried out.	-

3k	Provision of mining machineries in mineral benches	Wagon Drill-110mm-115mm 1No., Hydraulic Shovel 1CUM bucket capacity 1No. , Dumper (24 tonner)-3Nos. Rock Braker 1No. Water Tanker - 10 KL	Wagon Drill-110mm-115mm 1No., Hydraulic Shovel 1CUM bucket capacity 1No. , Dumper (24 tonner)-3Nos. Rock Braker 1No. Water Tanker -10 KL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	suitable	As per proposal
3m	Total area covered under excavation/pits	2.26 hect upto the end of proposal period i.e 31/03/2023	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.02	1:0.09

3o	Total area put in use under different heads at the end of year	Total area put on use under different heads at the end of present approved mining plan period are as follows-Total area excavated- 2.26hect, Total area under dump- 0.28hect, Area under mineral stack- 0.285hect, Area under Road- 0.10hect, Area under green belt - 0.045hect, Area under infrastructure 0.02hect.	Total area put on use under different heads are as follows-Total area excavated- 1.692hect, Total area under dump- 0.283 hect, Area under mineral stack-0.285hect, Area under Road, infrastructure 0.10hect, Area under green belt - 0.02hect,	
3p	Production of ROM mineral during the last five year period as applicable	2016-17=5376 2017-18=5376 2018-19=3125 2019-20=3605 2020-21-14736	2016-17=5130 2017-18=5268 2018-19=2000 2019-20=2150 2020-21-2100	units are in tonnes
3q	General remarks of inspecting officers on method of mining etc.			Hemm is being used in mineral benches drilling is being done with the Wagon Drill. For secondry blasting jack hammer drilling and then blasting are in practice.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	As there is no anticipation of top soil and mineral reject generation, there is no proposal in account of these . Dumping of OB proposed.	Disposal of overburden were seen as per proposal.
4b	Location of topsoil, OB and mineral reject dumps	Top soil and mineral reject dump not proposed . overburden is dumped in n the North East side of pit 1	In the North East side of pit 1 as proposed
4c	Number of dumps within lease area and outside of lease area	Three Dumps two for weathered material and one for overburden	two for weathered material and one for overburden
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side of the UPL	Out side of the UPL
4e	Number of active and alive dumps.	Three	Three
4f	Number of dead dumps.	Nil	None
4g	Number of dumps established.	Not Proposed	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	As per proposal
4i	Length of Retaining wall or garland drain all along dumps	Proposed	As per proposal
4j	Number of settling ponds	Not proposed	Nil

4k	Specific comments of inspecting officer on waste dump management	Overburden dump is on proposed site .Hight of dump is also seen as per proposal. Protective measures for waste dump were also seen.
----	--	---

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.	Pit is not yet reached upto ultimate pit depth of mineralisation .	Pit is not yet reached upto ultimate pit depthdepth of mineralisation.	
5b	Area under backfilling of mined out area	Not Proposed	Not Applicable as of now	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed as there is no top soil.	Not applicable as there is no top soil in the site under present year wise development.	
5d	Total area fully reclaimed and rehabilitated	Not proposed	nil no area fully excavated for the activity	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area under development for extraction of mineral is not mature for backfilling and reclamation etc.

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	not submitted
6b	Area available for rehabilitation (ha) .	not proposed	Nil
6c	afforestation done (ha).	not proposed	Nil
6d	No. of saplings planted during the year	50 nos	30
6e	Cumulative no .of plants	150	About 100
6f	Any other method of rehabilitation	not proposed	Nil
6g	Cost incurred on watch and care during the year	not proposed	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not Proposed	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not Proposed	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not Proposed	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	Carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance is more or less satisfactory. Mine is not yet reached upto ultimate pit limit in depth, so reclamation and rehabilitation of voids created so far not applicable.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade wise sorting	grdae wise sorting is being done before dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual method adopted for grad wise sorting	
7c	Different grade of mineral sorted out at mines.	not proposed	Nil	
7d	Any beneficiation process at mines .	not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Attents of lessee towards mineral conservation and benificiation are acceptable.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed as there is no top soil in the site selected for mining purpose.	Nil	
8b	Concurrent use or storage of topsoil	Not proposed	Not Applicable	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is proposal of dumping of overburden only as there is no top soil and generation of sub grade mineral	Overburden found dumped separately.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Pit is not matured for reclamation and rehabilitation	Not Applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed as pit, dump are not at present matured for reclamation and rehabilitation	Not Applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	As per proposal
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	proposed	As per proposal carried out.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		needs improvements

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

9a	Status of submission of Monthly and Annual returns	Receiving of Monthly Return upto October,21 and Annual Return upto 2020-21	Monthly Return upto October,21 and Annual Return upto 2020-21 received.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of Mining Engineer and Mining Geologist not given.	At the time of submission of AR,20-21 there were no mining Engineer and mining Geologist appointed in the mine. Before the inspection of mine, under consideration, lessee have appointed both, Mining Engineer and Mining Geologist and accordingly notice of appointment submitted in the office although notices received after pointing out of violation of rule 46.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings 1.692hect Used for waste disposal 0.28 hect Occupied by plant, buildings, residential, 0.1 hect. Other Purpose (Green belt) 0.02 hecct welfare buildings & roads	Land use pattern given in AR found almost ok

9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year 20	In fact in the field plantation was found morethan theindicated one. Post care of plantation was also observed satisfactory.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject Nil	No mineral reject stack was seen in the lease area.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock 2857.175 tonne	At the time of inspection ROM stock were observed.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Valuue Rs. 319.9737619 Ex. Mine Price Rs. 320	Sale value and Ex.Mine Price both are indicated in AR,2020-21. 6. Part - VII COST OF PRODUCTION For the calculation of cost of production Rs.86/-per royalty has been taken in to account whereas in case of limestone royalty is fixed as 80/-per tone, needs clarifications.	Defficiency observed w.r.t. cost of propoductionhave been pointed out vide letter dated 08/12/2021.
9h	Scrutiny of Annual return on fixed assets	Alongwith Mine office, FRONT END LOADER, DUMPER, WATER TANKER, Pump	Aforsaid fixed assets were seen in the lease area.	

9k	Scrutiny of Annual return on mining machineries	FRONT END LOADER 1.200 CUM 1 Non Electrical DUMPER 10.000 TONNE 1 Non Electrical DUMPER 16.000 TONNE 1 Non Electrical WATER TANKER 5000.000 LITRE 1 Non Electrical PUMPS (NON- ELEC.) 0.000 L/MN 1 Non Electrical	Afor said Machineries were seen in the lease area. Although there are number of machineries deployed in the mine but depreciation during the year to wards these machineries have not been considered in the return.	Vu iolation of rule 45(7) pointed out.
----	--	--	---	---

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)	08-DEC-21			
MCDR17	Rule 26(2)	08-DEC-21			
MCDR17	Rule 27(2)	08-DEC-21			
MCDR17	Rule 31(4)	08-DEC-21			
MCDR17	Rule 33	08-DEC-21			
MCDR17	Rule 45(7) (a)	08-DEC-21			
MCDR17	Rule 46(a)	08-DEC-21			

Date :

(RAGHUBIR SHARAN GARG)

Indian Bureau of Mines