

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-152

Mine code : 38MPR18092

- (i) Name of the Inspecting : **G006**) **ABHISHEK RANJAN GAUTAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : R K Mishra, Supervisor
Official with
Designation
- (iv) Date of Inspection : 20-JUL-21
- (v) Prev.inspection date : 13-MAR-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHANDAN (7.205 HA)**
- (b) **Registration NO.** : **IBM/6898/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village : CHANDAN
Taluka : BADWAR
Post office : RUPONDH
Pin Code :
FAX No. : 07622-222771
E-mail : bagaria_group@rediffmail.co
Phone : 07622-223767/223730
- (f) Police Station : BADWARA
- (g) First opening date : 07-JUL-82
- (h) Weekly day of rest : SUN
2. Address for : PROP. SHRI KISHOR KUMAR BAGARIA
correspondance : STATION ROAD, KATNI (M.P.) 483501
KATNI (M.P.) 483501
3. (a) Lease Number : MPR0224
- (b) Lease area : 5.6
- (c) Period of lease : 20
- (d) Date of Expiry : 26-MAR-02
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : KAMAL LIME INDUSTRIES
PROP.KISHORE KUMAR STATION
ROAD KATNI MADHYA PRADESH
Phone:07622-223767/223730
FAX :07622-222771

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 : Existing rule 11 MCDR1988 18-JAN-01
Plan/Scheme of Mining MP modif under 17(3) MCR 2016 07-DEC-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	The MMP was approved on 07/12/2017, for the period 2017-18 to 2021-22. Present exploration up to MRL 386m and mining UPL consideration, there is no need of further exploration.
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	The entire area is explored with 100m-150m grids and considered under G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Not applicable	
1e	Balance reserve as on 01/04/20			Balance reserve as on 01/04/2021 - 361500 tons.
1f	General remarks of inspecting officers on geology, exploration etc			The entire area is explored with 100m-150m grids and considered under G1 level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit -1	Pit -1	Development work was proposed in depth wise in existing pit 1 in the year 2020-21.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench for top soil, Over burden & MINERAL	Separate bench for top soil, Over burden & MINERAL	
2c	Stripping ratio or ore to OB ratio	1:0.50	As per proposal.	
2d	Quantity of topsoil generation in m3	Not proposed	Not applicable	
2e	Quantity of overburden generation in m3	Not proposed	Not applicable	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development work was proposed in depth wise in existing pit 1 in the year 2020-21.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit no 1.	Pit no 1.	The MMP was approved on 07/12/2017, for the period 2017-18 to 2021-22. The production was proposed from existing pit no 1.
3b	Quantity of ROM mineral production proposed	The production of 68953 tonnes (EC 11500) was proposed from existing pit during 2020-21.	The production of 8500 tonnes of limestone reported during 2020-21.	
3c	Recovery of sailable/usable mineral from ROM production	The recovery of limestone about 75% from ROM proposed from existing pit 1.	Recovery of about 75% from ROM reported.	

3d	Quantity of mineral reject generation	The Waste/reject about 25% from ROM proposed from existing pit 1.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	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 / Mechanised method adopted for segregating from ROM	The manual method proposed for segregating mineral and waste from ROM proposed.	As per proposal.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not applicable
3j	Provision of drilling and blasting in mineral benches	The Wagon drill and compressed air fed jackhammer drilling & blasting proposed in mineral benches for the year 2020-21.	As per proposal

3k	Provision of mining machineries in mineral benches	Proposed mining machinery on hire basis is given below 1. Hydraulic Shovel (back Hoe) - 02 2. Dumper, 24 Tonns Capacity - 03 3. Tractor & Water tank - 01 4. Jack Hammer - 01 5. Wagon Drill - 01 6. Rock Breaker - 01 7. Diesel Pump - 01	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Height of bench is proposed to be kept at 5-6 mtrs.	As per proposal
3m	Total area covered under excavation/pits	Total 0.5 ha area will be covered under excavation.	0.5 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.50	As per proposal
3o	Total area put in use under different heads at the end of year	The total area put in use under different head about 6.5671 ha.	Around 6.5671 ha.
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 3491 Tons 2017-18 - 10788Tons 2018-19 - 67381 Tons 2019-20 - 69831 Tons 2020-21 - 68953 Tons	2016-17 - 3425 Tons 2017-18 - 10225 Tons 2018-19 -9000 Tons 2019-20 - 8500 Tons 2020-21 - 8500 Tons

3q	General remarks of inspecting officers on method of mining etc.	The mine EC limit is 11500 Tons/Annum while the production proposal is higher than EC limit, however the actual production is within the EC limit
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, 28860 m3 OB/Soil generation proposed during 2020-21.	Not done as per proposal.	
4b	Location of topsoil, OB and mineral reject dumps	Near boundary pillar no 13, Intermediate Pillar 12A & 12 B.	As per proposal	
4c	Number of dumps within lease area and outside of lease area	02 nos. of Dump proposed within lease area.	02 nos. of Dump	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Near boundary pillar no 13, Intermediate Pillar 12A & 12 B.	As per proposal	
4e	Number of active and alive dumps.	02 Active Dumps were proposed	02 nos. of Dump	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	02 nos. of Dump proposed	02 nos. of Dump	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain not proposed all along dumps during 2020-21.	Garland drain observed along the dump 1 during the inspecton .The sizes of dump are small.	

4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not applicable.	
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management			The soil and waste dumps are small in sizes.

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.	Part Extraction	Part Extraction	
5b	Area under backfilling of mined out area	Backfilling proposed in 7.5 meter barrier zone near boundary pillar no 13	As per proposal backfilling was not done.	Violation of rule 11(1) pointed out for proposed backfilling in the year 2017-18.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Top soil stored
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Violation of rule 11(1) pointed out for proposed backfilling in the year 2017-18.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).		Not submitted	Violation of rule 26(2) pointed out for PMCP report.
6b	Area available for rehabilitation (ha) .	Not proposed	Not applicable	
6c	afforestation done (ha).	Area 40Sqm	Not done.	Violation of rule 11(1) pointed out for plantation.
6d	No. of saplings planted during the year	10 plants proposed every year in the approved proposal period.	Not done.	
6e	Cumulative no .of plants	Not available	Plantaion not done	
6f	Any other method of rehabilitation	Not proposed	Not applicable	
6g	Cost incurred on watch and care during the year	10 plants proposed every year in the approved proposal period.	Plantaion not done	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	34484m3	Not done	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Backfilling proposed in 7.5 meter barrier zone near boundary pillar no 13	Not done	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Backfilling proposed in 7.5 meter barrier zone near boundary pillar no 13	Not done
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed for the year 2020-21.	Not applicable.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Backfilling proposed in 7.5 meter barrier zone near boundary pillar no 13	Not done
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed for the year 2020-21.	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Within prescribed limit.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Violation of rule 11(1) pointed out for plantation. The damage towards environment due to manual mining is less.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sizing and sorting of minral limestone proposed for the year 2020-21.	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sizing and sorting of minral limestone proposed for the year 2020-21.	As per proposal	
7c	Different grade of mineral sorted out at mines.	Manual sizing and sorting of minral limestone proposed for the year 2020-21.	As per proposal	
7d	Any beneficiation process at mines .	Not proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The Manual sizing and sorting of minral limestone done for SMS and BF grade of limestone as proposed for the year 2020-21.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Staorage	Staorage	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling and plantation was proposed	Backfilling and plantation not done as per proposal	Violation of rule 11(1) pointed out for backfilling & plantation.
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 and additional plantation done (Rule 41)	Not available	Not available	
8g	Survival rate	Plantation was proposed	Plantation not done as per proposal	
8h	Water sprinkling on roads to control airborne dust	Proposed	Done with water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Violation of rule 11(1) pointed out for plantation.	Violation of rule 11(1) pointed out for Backfilling & plantation.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		The monthly return submitted upto June 2021 & Annual return submitted upto 2020-21.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		The mining engineer and geologist not appointed.	The mining engineer and geologist not appointed. Violation for rule 55 has been pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.			Violation for rule 31(4) has been pointed out.
9d	Scrutiny of Annual return on afforestation	40Sqm		Plantation not done. Violation for Rule 11(1) has been pointed out.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Not given in AR	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The production of 68953 tonnes (EC 11500) was proposed from existing pit during 2020-21.	The production of 8500 tonnes of limestone reported during 2020-21.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Ex mine price-Rs 320/- ,Sale value Rs 320/- Tone & cost of production given Rs 309.07/- Tone.	
9h	Scrutiny of Annual return on fixed assets		Rs 2670533	

9k	Scrutiny of Annual return on mining machineries	Proposed mining machinery on hire basis is given below 1. Hydraulic Shovel (back Hoe) - 02 2. Dumper, 24 Tonns Capacity - 03 3. Tractor & Water tank - 01 4. Jack Hammer - 01 5. Wagon Drill - 01 6. Rock Breaker - 01 7. Diesel Pump - 01	Details not given in AR.
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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-JUL-21			
MCDR17	Rule 26(2)	29-JUL-21			
MCDR17	Rule 31(3)	29-JUL-21			
MCDR17	Rule 35(2)	29-JUL-21			
MCDR17	Rule 55(1) (3)	29-JUL-21			

Date :

(ABHISHEK RANJAN GAUTAM)

Indian Bureau of Mines