

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-79

Mine code : 38MPR18105

- (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 : 08-AUG-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHANDAN (5.605 HA)**
- (b) **Registration NO.** : **IBM/6898/2011**
- (c) Category : B Manual
- (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
- (f) Police Station : BADWARA
- (g) First opening date : 25-OCT-82
- (h) Weekly day of rest : SUN
2. Address for : SHRI KISHOR KUMAR
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 Associated
DOLOMITE Main

5. Name and Address of the

Lessee : KISHOR KUMAR
STATION ROAD KATNI MADHYA
PRADESH
Phone:07622-223730
FAX :07622-222771

Owner : KISHOR KUMAR
STATION ROAD KATNI MADHYA
PRADESH
Phone: 07622-223730
FAX : N. A.

6. Date of approval of Mining : MP modif under 17(3) MCR 2016 16-MAY-17
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	The MMP was approved on 16/05/2017, for the period 2017-18 to 2021-22. In which 04 boreholes upto 40 m. depth and 08 no. of trenches (40-30mx3mx2-3m) proposed in the year 2017-18 .	Not done as proposed.	Violation of rule 11(1) pointed out for proposed exploration not done in the year 2017-18.
1b	Exploration over lease area for geological axis 1 or 2	The MMP was approved on 16/05/2017, for the period 2017-18 to 2021-22. In which 04 boreholes upto 40 m. depth and 08 no. of trenches (40-30mx3mx2-3m) proposed in the year 2017-18 for exploration over lease area for geological axis 1.	Not done as proposed.	Violation of rule 11(1) pointed out for proposed exploration not done in the year 2017-18.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not given	Not given	Violation of rule 11(1) pointed out for proposed exploration not done in the year 2017-18.

1d	Balance area to be explored to bring Geological axis in 1 or 2	The MMP was approved on 16/05/2017, for the period 2017-18 to 2021-22. In which 04 boreholes upto 40 m. depth and 08 no. of trenches (40-30mx3mx2-3m) proposed in the year 2017-18 for exproation over lease area for geological axis 1.	Not done as proposed.
1e	Balance reserve as on 01/04/20		Balance reserve as on 01/04/2021 - 14793 tons.
1f	General remarks of inspecting officers on geology, exploration etc		The exploration work as proposed was not done for which violation of rule 11(1) pointed out.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Developement work was not proposed in the year 2020-21.	As per proposal	
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	1:1.015	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 not proposed.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit no 1 & 2.	Pit no 1 & 2.	The RMP was approved on 16/05/2017, for the period 2017-18 to 2021-22.The production was proposed from existing pit no 1 & 2.
3b	Quantity of ROM mineral production proposed	The production of 4766 tonnes was proposed from existing pit during 2020-21.	The production of 4700 tonnes of limestone reported during 2020-21.	
3c	Recovery of sailable/usable mineral from ROM production	The Waste/reject about 20% from ROM proposed from existing pit 1&2.	Nil	
3d	Quantity of mineral reject generation	Not applicable.	Not applicable.	
3e	Grade of mineral rejects 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 / 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 jackhammer drilling & blasting proposed in mineral benches for the year 2020-21.	As per proposal
3k	Provision of mining machineries in mineral benches	The mine working was proposed by B cat. manual means.	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The mine working was proposed by B cat. manual means by forming 0.5m to 1.0m height in mineral bench.	As per proposal
3m	Total area covered under excavation/pits	about 0.2229 ha additional and comulative area of 0.3459 ha.	Around 0.2 ha

3n	Ore to OB ratio for the pit/mine during the year.	1:0.15	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 0.7094 ha.	As per proposal	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 2590 Tons 2018-19 - 3885 Tons 2019-20 - 5392 Tons 2020-21 - 4766 Tons	2017-18 - 2500 Tons 2018-19 - 3800 Tons 2019-20 - 5300Tons 2020-21 - 4700 Tons	
3q	General remarks of inspecting officers on method of mining etc.			This is a B category manual mine & mining is carried out by manual method as proposed.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, However the soil,OB & reject generation during 2020-21 not proposed.	Not applicable	
4b	Location of topsoil, OB and mineral reject dumps	The soil,OB & reject generation during 2020-21 not proposed	Not applicable	
4c	Number of dumps within lease area and outside of lease area	02 nos. of old Dump exist within lease area. However the soil,OB & reject generation during 2020-21 not proposed.	Not applicable	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Not applicable	
4e	Number of active and alive dumps.	Not proposed	Not applicable	One active waste dump present in the lease area .
4f	Number of dead dumps.	02 old waste dump shown in surface plan.	02 old inactive/dead waste dumps present in the lease area which were naturally stbilished.	
4g	Number of dumps established.	02 old waste dump shown in surface plan.	02 old inactive/dead waste dumps present in the lease area which were naturally stbilished.	
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.	Retaining wall and garland drain not observed all along dumps during .The sizes of dumps 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 mining is carried out by manual method as proposed . 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 7 to 8	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
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).	10 plants proposed every year in the approved proposal period.	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 7 to 8	Not done
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Backfilling proposed in 7.5 meter barrier zone near boundary pillar no 7 to 8	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 7 to 8	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)	Not proposed for the year 2020-21. This is B cat. manual mines.	This is B cat. manual mines. Hence not applicable.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Violation of rule 11(1) pointed out for plantation. This is B cat. manual mines. Hence not applicable. The damage towards environment due to manual mining is less.

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 mineral limestone proposed for the year 2020-21.	As per proposal	
7c	Different grade of mineral sorted out at mines.	Manual sizing and sorting of mineral 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 mineral limestone done for SMS and BF grade of limestone as proposed for the year 2020-21.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	During the year 2020-21 developement work was not proposed.	Not applicable	
8b	Concurrent use or storage of topsoil	Yes	Staorage	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, However, During the year 2020-21 developement work was not proposed.	Not applicable	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	During the year 2020-21 developement work was not proposed. however Backfilling and plantation was proposed	Backfilling and plantation not done	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	Violation for rule 11(1) related with plantation has been pointed out.
8g	Survival rate			Violation for rule 11(1) related with plantation has been pointed out.
8h	Water sprinkling on roads to control airborne dust			Not observed as inspection was done in rainy season and on inspection day mining operations were closed due to rainy season from last 15 days.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			This is B cat. manual mines.Hence not applicable.The damage towards envirnoment due to manual mining is less.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 as reject not generated.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The production of 4766 tonnes was proposed from existing pit during 2020-21.	The production of 4700 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 233/- Tone.	
9h	Scrutiny of Annual return on fixed assets		Rs 2077493	
9k	Scrutiny of Annual return on mining machineries		Not mentioned being manual mining.	

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