

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-237

Mine code : 38MPR47019

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 05-FEB-20
- (v) Prev.inspection date : 13-DEC-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMETHA**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village : AMETHA
Taluka : V.GARH
Post office :
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : 53730
- (f) Police Station : VIJARAHHOGARH
- (g) First opening date : 23-AUG-78
- (h) Weekly day of rest : SUN
2. Address for : SHRI KAILASH CHAND BAGARIA
correspondance : STATION ROAD, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0220
- (b) Lease area : 2.82
- (c) Period of lease : 10
- (d) Date of Expiry : 04-DEC-91
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : KAILASH CHAND BAGARIA
 STATION ROAD KATNI KATNI
 MADHYA PRADESH
 Phone:09425330680/9893158602
 FAX :NIL

Owner : KAILASH CHAND BAGARIA
 M/S K.C.BAGARIA SONS
 STATION ROAD, KATNI MADHYA
 PRADESH
 Phone: 07622-223767/ 9
 FAX : 07622-222771

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	18-JUL-01
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	21-MAY-09
		Mining Scheme rule 12 MCDR1988	27-FEB-12
		Renewal under rule 24 MCR1960	25-JUN-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NO EXPLORATION PROPOSAL WAS GIVEN FOR THE YEARS 2019-20	NO EXPLORATION WORK WAS CARRIED OUT DURIGN THE REPORTING YEAR 2019-20	
1b	Exploration over lease area for geological axis 1 or 2	POTENTIAL MINERALISED AREA EXPLORED UPTO G1 LEVEL	POTENTIAL MINERALISED AREA EXPLORED UPTO G1 LEVEL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NOT MENTIONED	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	POTENTIAL MINERALISED AREA EXPLORED UPTO G1 LEVEL	POTENTIAL MINERALISED AREA EXPLORED UPTO G1 LEVEL	
1e	Balance reserve as on 01/04/20	AS ON 01.04.2015 121-1.232201 221-0.708750 333-1.778608	AS ON 01.04.2019 121-1.148619 221-0.708750 333-1.778608	UNITS ARE IN MILLION TONNES
1f	General remarks of inspecting officers on geology, exploration etc			ML AREA BELONGS TO VINDHYAN SUPER GROUP OF ROCKS OF ROHTAS FORMATION, LIMESTONE OF THE AREA FINE GRAINED TO MEDIUM GRAINED, HARD AND COMPACT IN NATURE

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	DEVELOPMENT WAS PROPOSED TO DO IN THE NORTH AND EAST DIRECTION OF THE QUARRY	WOKING WAS PER PROPOSAL IN ADVANCEMENT WAS TOWARDS NORTH AND EARTERN DIRECTION	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	PROPOSED	SEPARATE BENCHES PROPOSED AND MAINTAINED IN SOIL AND IN MINERAL LIMESTONE	
2c	Stripping ratio or ore to OB ratio	1:0.30	1:0.30	
2d	Quantity of topsoil generation in m3	9250 CU M	7500 CU M	
2e	Quantity of overburden generation in m3	11989 CU M	4000 CU M	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			WORKING WAS AS PER PROPOSAL

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit only one quarry	Single Pit	
3b	Quantity of ROM mineral production proposed	108503 tonnes	108143 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	70 % Lst	70-75 % Lst	
3d	Quantity of mineral reject generation	Not Proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil	
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil	

3g	Grade of sub grade mineral generation	Not Proposed	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual and Mechanised method proposed for rom segragation	By Manual means Dolomite is being separate from Limestone, screening is also being used	
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	proposed	as and when required on contract basis	
3k	Provision of mining machineries in mineral benches	proposed	HEMM is being used in mineral benches for excavation and transportataion	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	suitable	proposed heighth and width suitable for mining as per approved mining plan	
3m	Total area covered under excavation/pits	4.20 hect	3.95 hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.30	1:0.30	
3o	Total area put in use under different heads at the end of year	5.67 hect	5.50 hect	
3p	Production of ROM mineral during the last five year period as applicable	2015-16=27090 2016-17=71030 2017-18=87885 2018-19=84082 2019-20=108503	2015-16=22021 2016-17=13596 2017-18=24922 2018-19=23043 2019-20=108143	units are in tonnes

3q	General remarks of inspecting officers on method of mining etc.	workign is as per proposal, separate benches maintained in top sol and mineral, HEMM is being used in mineral benches
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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)	proposed	separate dumping for soil and waste/ob is being maintained in the ML area	
4b	Location of topsoil, OB and mineral reject dumps	in the south eastern and south western portion of the ML area	dumps are in the specified location	
4c	Number of dumps within lease area and outside of lease area	two dumps	two dumps 1-OB/waste and 1- Soil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within the UPL	Within the UPL	
4e	Number of active and alive dumps.	two	1-OB/waste and 1-Soil	
4f	Number of dead dumps.	Not Proposed	Nil	
4g	Number of dumps established.	Not Proposed	None	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Nil	
4j	Number of settling ponds	Not Proposed	Nil	

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.	Full extraction of mineral proposed	full extraction of mineral under progress upto the UPD	
5b	Area under backfilling of mined out area	Not Proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	No soil generated wirkign was in old quarry increasing the depth	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Full extraction of the Mineral under process no place available for backfilling

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	Voilation already issued
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	
6c	afforestation done (ha) .	0.05 hect	0.09 hect	
6d	No. of saplings planted during the year	10 nos	20 nos only on one side of 7.5 meter barrier zone	
6e	Cumulative no .of plants	50 for last five year	210 for last five years	

6f Any other method of rehabilitation Not Proposed Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting before dispatch proposed	Grade wise sorting being done before dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual and Mechanical Both	Manual Method adopted for separation of Dolomite from Limestone Mechanical Method adopted for Segregation of waste from Limestone	
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			Grade wise sorting is being done before dispatch

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	as generated soil is used for plantation over barrier zone	
8b	Concurrent use or storage of topsoil	Proposed	as and when generated as the working increased in depth wise minimum amount of soil generated	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	separate dumping of waste and soil is placed in the mine	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	not proposed	nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per approved mining plan	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	proposed	with the use of water tanker	
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	Submitted	MR Submitted upto April 2020 Ar submitted upto 2019-20	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	submitted	Geologist Shri Sanjay Singh
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	submitted	<p>Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000</p> <p>(ii) Covered under current (O/C) Workings 0.000 4.800 4.800</p> <p>(iii) Reclaimed/Rehabilitated 0.000 0.000 0.000</p> <p>(iv) Used for waste disposal 0.000 0.630 0.630</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.120 0.120</p> <p>(vi) Other Purpose (0) 0.000 0.000 0.000</p> <p>(vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000</p>
9d	Scrutiny of Annual return on afforestation	submitted	<p>4.4 (i) Number of trees planted during the year</p> <p>(a) Within lease area (b) Outside lease area</p> <p>(i) Number of trees planted during the year 20 0</p> <p>(ii) Survival rate in percentage 80.00 0</p>

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Submitted	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnished	<p>rades Opening stock at mine head (in tonne) Production (in tonne) Despatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in Per Tonne)</p> <p>(a) LD 0.000 0.000 0.000 0.000 0.00</p> <p>(b) SMS 0.000 0.000 0.000 0.000 0.00</p> <p>(c) Chemical 0.000 0.000 0.000 0.000 0.00</p> <p>(d) BF 14932.230 108143.000 103597.782 19477.448 313.50</p> <p>(e) Cement 0.000 0.000 0.000 0.000 0.00</p>
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		<p>Ex-mine price (in INR Per Tonne) 313.50 Cost of production in INR per Tonne 187.12</p>
9h	Scrutiny of Annual return on fixed assets	Not Furnished	Nil

9k	Scrutiny of Annual return on mining machineries	furnished	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) FRONT END LOADER 1.200 CUM 1 Non Electrical Opencast DUMPER 16.000 TONNE 1 Non Electrical Opencast DUMPER 10.000 TONNE 1 Non Electrical Opencast PUMPS (NON-ELEC.) 650.000 L/MN 1 Non Electrical Opencast PUMPS (ELEC.) 650.000 L/MN 1 Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast GENERATOR (DIESEL) 0.000 KWH 1 Non Electrical Opencast
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines