

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-30

Mine code : 38MPR47044

- (i) Name of the Inspecting : **SQ23**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 13-NOV-20
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAJARWARA (5.202 H)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village :
Taluka :
Post office :
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for : SMT. SUMITRA GROVER
correspondance : CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR1550
(b) Lease area : 5.2
(c) Period of lease : 20
(d) Date of Expiry : 18-DEC-15
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : SUMITRA GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : SUMITRA GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 31-AUG-09
Plan/Scheme of Mining MP modif under MCR 1960 11-AUG-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NP	NIL	
1b	Exploration over lease area for geological axis 1 or 2	NO PROPOSAL	NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NO PROPOSAL	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NO PROPOSAL	NIL	Most of area is broken, G1 & G2
1e	Balance reserve as on 01/04/20		111-610249, L/S 111-.313917 111-Dolomite-.069805 211-.034880, all quantities in million ton.	The occurrence of limestone & dolomite in the lease area is stratigraphically controlled. The lease area belongs to Vindhyan super group in Rohtas Limestone of Semri group. Rocks of this formation comprise of shale, Limestone and dolomite. These rocks are structurally undisturbed. The lithological succession is given below based on the exposure in the quarry. & show average dip of 150 with general ENE-WSW trend having north-westerly dip.

1f	General remarks of inspecting officers on geology, exploration etc	Hardness - 4.5 Bulk density - 2.5 The ML area lies along the foot hill of the Kymore hill range. The Limestone strata dip 10 0 to 20 0 northerly. The strike direction is ENE-WSW. Two set of joint pattern is clearly visible in the working faces.	The lease area belongs to Vidhyan super group in Rohtas limestone of Semri group. The general succession of rock in the lease area is given below :- Litho logy South of ML area North of ML area Recent Soil 0 -3 m 0 - 6 m Semri group Rohtas Limestone Limestone and Dolomite inter bedded with Shale 3m - 18 m, south of ML, 6 m - 25 m north of ML. there after basal shale continues at bottom
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Quary 1	nil	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes planned	nil	
2c	Stripping ratio or ore to OB ratio	1:0.70	nil	
2d	Quantity of topsoil generation in m3	3900 M3	NIL	
2e	Quantity of overburden generation in m3	9270 M3	NIL	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No working is done in mines in last 5 years.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	nil	
3b	Quantity of ROM mineral production proposed	19467T	NIL	
3c	Recovery of sailable/usable mineral from ROM production	NIL	NIL	
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.	NP	nil	
3g	Grade of sub grade mineral generation	NP	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	NP	NIL	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NP	NIL	

3j	Provision of drilling and blasting in mineral benches	YES	Not observed	No work done.
3k	Provision of mining machineries in mineral benches	Yes	Not observed	No work done.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m benches proposed.	NIL	No work done.
3m	Total area covered under excavation/pits	3.93 hectare	2.90 hectare	no work done.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.70	nil	
3o	Total area put in use under different heads at the end of year	4.86 hect.	4.02 hect.	
3p	Production of ROM mineral during the last five year period as applicable	2015-16 50610 2016-17 44520 2017-18 44330 2018-19 51083 2019-20 54075	nil nil nil nil nil	
3q	General remarks of inspecting officers on method of mining etc.			The mines is planned with 6 m benches.No working is done in last 5 years.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NP	NA	

4b	Location of topsoil, OB and mineral reject dumps	NP	NA	
4c	Number of dumps within lease area and outside of lease area	NP	03 Nos.	Old dumping.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)		worked pit one inside Two outside.	old dumps.
4e	Number of active and alive dumps.	NP		
4f	Number of dead dumps.		03 Nos	No working is done.
4g	Number of dumps established.	NP		
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes		No working.
4i	Length of Retaining wall or garland drain all along dumps			No working.
4j	Number of settling ponds	NP		
4k	Specific comments of inspecting officer on waste dump management			In the last plan valid upto 2019-20.Only backfilling proposals are made.No proposals for dumping.

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.	Yes,depth upto nil. planned.		

5b	Area under backfilling of mined out area	0.39 hectare	Nil	Top area in 5 years.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	nil	
5d	Total area fully reclaimed and rehabilitated	nil	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine is not in working in last 5 years. Backfilling is planned in last 5 year period.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).		Not submitted	Mine is not working.
6b	Area available for rehabilitation (ha) .	NP	NA	
6c	afforestation done (ha).	NP	NA	
6d	No. of saplings planted during the year	NP	NA	
6e	Cumulative no .of plants	NP	NA	
6f	Any other method of rehabilitation	NP	NA	
6g	Cost incurred on watch and care during the year	NP	NA	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D		2.5 hectare	pit area
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1150 M2	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NIL	NIL	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NP	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NP	NIL	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NP	NIL	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NP	NIL	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NP	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	NIL	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The mines is not being worked in last 5 year.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	NIL	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	ROM	NIL	
7c	Different grade of mineral sorted out at mines.	NP	NIL	
7d	Any beneficiation process at mines .	NP	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The cement grade limestone is sent to cement makers as proposed.No observation made as mines is not running.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	nil	
8b	Concurrent use or storage of topsoil	proposed	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	nil	backfilling planned.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	nil	nil	
8h	Water sprinkling on roads to control airborne dust	yes	not done	mines is not working.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Mines is not working in review year and last many years (5 years).

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		returns are submitted.	mines is not working since last 5 years.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		no appoint ments are made.	mines is not working since last 5 years.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(ii) Covered under current (O/C) Workings 2.300 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 1.070 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.100 (vi) Other Purpose (Green belt) 0.100	details furnished.	
9d	Scrutiny of Annual return on afforestation	nil		mines is not working since last 5 years.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil		mines is not working since last 5 years.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	527 ton closing stock of limestone		mines is not working since last 5 years.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	nil	not applicable	mines is not working since last 5 years.
9h	Scrutiny of Annual return on fixed assets	1040400, value of fixed assets given,		mines is not working since last 5 years.
9k	Scrutiny of Annual return on mining machineries	nil		mines is not working since last 5 years.

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

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines