

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

Mining Plan Modification REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-286

Mine code : 38MPR47129

- (i) Name of the Inspecting : **KQ06**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Sh Manoj Rai (Mining Engr), K Murari (Mining Engr)
Official with
Designation
- (iv) Date of Inspection : 17-SEP-19
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAJARWARA (4.28 HA)**
- (b) **Registration NO.** : **IBM/749/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : RAJARWARA
Taluka : GARH
Post office : RAJARWARA
Pin Code :
FAX No. : 07622-404992
E-mail : ranjan_grover4@yahoo.com
Phone : 07622-404992
- (f) Police Station : VIJAYRAGHOGARH
- (g) First opening date : 01-JAN-10
- (h) Weekly day of rest : SUN
2. Address for : SMT. SUMITRA GROVER
correspondance : CIVIL LINES, KATNI (M.P.)
PIN - 483501
3. (a) Lease Number : MPR2538
- (b) Lease area : 4.28
- (c) Period of lease : 30
- (d) Date of Expiry : 10-JAN-40
4. Mineral worked : 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 03-JUL-15
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	No exploration proposed in the RY 2018-19
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	No exploration proposed in the RY 2018-19
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20		Balance reserve as on 01.04.2019 111 426596 T 211 513274 T	
1f	General remarks of inspecting officers on geology, exploration etc			Explration not proposed as per approved document.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northern Block	Northern Block. Excavation found within 7.5 m barrier zone in eastern side from near boundary pillar no. 15 to boundary pillar no. 07 in the common boundary of the other lease of the same owner.	Violation pointed out for the same.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1: 0.61	1: 0.50	
2d	Quantity of topsoil generation in m3	3720 m3	1000 m3	Violation pointed out for the same.
2e	Quantity of overburden generation in m3	8562 m3	6437 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Working found within 7.5 m barrier zone in eastern side from near boundary pillar no. 15 to boundary pillar no. 07 in the common boundary of the other lease of the same owner. Violation pointed out for the same.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	49935 Te	49905 Te	
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	NA	
3d	Quantity of mineral reject generation	Not proposed	NA	

3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	NA
3f	Quantity of sub grade mineral generation.	Not proposed	NA
3g	Grade of sub grade mineral generation	Not proposed	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	NA
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	NA
3j	Provision of drilling and blasting in mineral benches	Dai 32mm & 83mm , depth 1.5m & 2.9m	Dai 32mm & 83mm , depth 1.5m & 2.9m
3k	Provision of mining machineries in mineral benches	L&T pc 200 (1.2cum) 210 HP	L&T pc 200 (1.2cum) 210 HP
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES
3m	Total area covered under excavation/pits	2.84 ha	2.48 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.61	1: 0.5
3o	Total area put in use under different heads at the end of year	3.75 Ha	3.03 Ha

3p	Production of ROM mineral during the last five year period as applicable	2014-15 - NIL 2015-16 - 57182 T 2016-17 - 50400 T 2017-18 - 48510 T 2018-19 - 49935 T	2014-15 - NIL 2015-16 - Nil 2016-17 - 4624.0 t 2017-18 - 11630 t 2018-19 - 49905 t	
3q	General remarks of inspecting officers on method of mining etc.		Working has been done in the 7.5 m barrier zone in eastern side from near boundary pillar no. 15 to boundary pillar no. 07 in the common boundary of the other lease of the same owner and some other places also.	Violation pointed out for the same.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Four Soil dumps and one waste dump	Four Soil dumps and one waste dump	
4b	Location of topsoil, OB and mineral reject dumps	Three dumps in North East side, One in South and One dump South-East.	Three dumps in North East side, One in South and One dump South-East. (Near BP-19& 20, Near BP- 01& 02, Near BP- 05&06, Near BP- 09 to 12, E 449910 to 449930 & N 2654120 to 2654160)	
4c	Number of dumps within lease area and outside of lease area	Five Temporary dumps	Five Temporary dumps	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	with in UPL	with in UPL	
4e	Number of active and alive dumps.	Five	Five	
4f	Number of dead dumps.	Nil	Nil	

4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed in the south west direction low silt area	Garland drain found in the south west direction low silt area	
4i	Length of Retaining wall or garland drain all along dumps	Garland drain of 50m	about 50 m	
4j	Number of settling ponds	ONE	ONE	
4k	Specific comments of inspecting officer on waste dump management			Temporary dumps used for backfilling partly.

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	NIL	
5b	Area under backfilling of mined out area	0.5 Ha	0.5 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of top soil	Concurrent use of top soil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling done by the waste generated in mining operation.

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).	YES	YES	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	15 PLANTS	
6e	Cumulative no .of plants	NOT SPECIFIED	50 PLANTS IN THE BARRIER ZONE	
6f	Any other method of rehabilitation	Not proposed	Nil	
6g	Cost incurred on watch and care during the year	Not specified	Not given.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	7000 m3	7000 m3	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	5000 m3	approx 5000 m3	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Nil	Nil	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not done	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not specified	Not done	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not proposed	15 plants	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation at end of lease period	15 plants in the year 2018-19	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance done as per approved document.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch 49905 T
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	Cement , BF	Cement , BF
7d	Any beneficiation process at mines .	Not proposed	NA
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Concurrent utilization of top soil on the backfilled area	Concurrent utilization of top soil on the backfilled area	
8b	Concurrent use or storage of topsoil	Concurrent use of topsoil	Concurrent use of topsoil	
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	Yes	Yes	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation is proposed after backfilling on the Land degraded by mining at the end of lease period	Plantation is proposed after backfilling on Land degraded by mining at the end of lease period	
8g	Survival rate	70 %	approx 70%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Land degraded due to mining operation, destruction of soil and vegetation, changes in geological structure.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR not submitted till inspection	AR not submitted till inspection	Violation pointed out for the same.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not submitted	Mining Engineer - Krishna Murari	AR not submitted till date of inspection. Violation pointed out for the same.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR not submitted till date of inspection.	Excavation/pits (Ha.) 2.48 Top soil storage (Ha.) 0.45 waste/Ob /Ib dumps (Ha.) 0.12 Mineral rejects (Ha.) 0.00 Sub grade mineral stacks (Ha.) 0.00 Mineral stacks (Ha.) 0.00 PlaNts Buildings, infrastructure etc. (Ha.)0.10 Other (Specify) 0.00	
9d	Scrutiny of Annual return on afforestation	AR not submitted till date of inspection.	15 Tree planted & 11 trees survived	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR not submitted till date of inspection.	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR not submitted till date of inspection.	NIL	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR not submitted till date of inspection.	NA	
9h	Scrutiny of Annual return on fixed assets	AR not submitted till date of inspection.	NA	

9k	Scrutiny of Annual return on mining machineries	AR not submitted till date of inspection.	NA
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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)	18-OCT-19			
MCDR17	Rule 28 (3) (k	18-OCT-19			
MCDR17	Rule 33	18-OCT-19			
MCDR17	Rule 45 (5) (c	18-OCT-19			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines