

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

Mining Plan Modification REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-283

Mine code : 38MPR47123

- (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 : 24-DEC-19
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NANHWARA (18.09 HA)**
- (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. : NA
E-mail : NA
Phone : NA
- (f) Police Station :
- (g) First opening date : 01-JUN-07
- (h) Weekly day of rest :
2. Address for : SHRI RAJ KISHORE AGRAWAL
correspondance : C/O GANESH MOTORS, JABALPUR ROAD,
KATNI (M.P.) 483501
3. (a) Lease Number : MPR2517
- (b) Lease area : 18.09
- (c) Period of lease : 20
- (d) Date of Expiry : 05-FEB-27
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : RAJ KISHORE AGRAWAL
CIVIL LINES KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : RAJ KISHORE AGRAWAL
CIVIL LINES KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Modif.of approved Mining Plan	06-OCT-08
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	01-OCT-12
		MP review under 17(1) MCR 2016	16-DEC-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	-	-	
1b	Exploration over lease area for geological axis 1 or 2	100 mtr grid,4 BH	100 mtr grid,4 BH	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	8.23	6.86	
1e	Balance reserve as on 01/04/20	122-2903204	122-2903204	RESERVES AS ON 01.04.2019
1f	General remarks of inspecting officers on geology, exploration etc			limestone is well observed in fully developed pit. Exploration planned in future too.BLOCK 1 AND BLOCK3.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block 1/block 3	As per plan	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	2 benches in waste , 3-4 benches in mineral	
2c	Stripping ratio or ore to OB ratio	1.0.88	1.0.90	
2d	Quantity of topsoil generation in m3	4980 cu.m.	5010 cu.m.	

2e Quantity of overburden generation in m3 10803 cu.m. 11000 cu.m.

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc The pit is well developed with separate trenches in waste and limestone

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	44993 MT	44100 MT	
3c	Recovery of sailable/usable mineral from ROM production	-	-	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	
3j	Provision of drilling and blasting in mineral benches	YES	YES	
3k	Provision of mining machineries in mineral benches	NO	NO	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	suitable
3m	Total area covered under excavation/pits	2.60 ha	2.60 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1.0.88	1.0.90	
3o	Total area put in use under different heads at the end of year	7.72 hect.	7.5 hect	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 44940 MT 2015-16 44635 MT 2016-17 44887 MT 2017-18 45010 MT 2018-19 44993 MT	2014-15 44669 MT 2015-16 44443 MT 2016-17 44510 MT 2017-18 44555 MT 2018-19 44100 MT	The mining is well developed by use of machinery and benching.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, separate for soil and waste rock	Yes, separate for soil and waste rock	
4b	Location of topsoil, OB and mineral reject dumps	soil near BP- 13,12,11 in north, ob waste -near BP 7,8,9 in south	as per plan given above.	
4c	Number of dumps within lease area and outside of lease area	02, nil	02, nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	southern portion	southern portion of ML	
4e	Number of active and alive dumps.	02	02	
4f	Number of dead dumps.	Nil	nil	
4g	Number of dumps established.	02	02	
4h	Whether Retaining wall or garland drain all along dumps are there.	YES	YES	
4i	Length of Retaining wall or garland drain all along dumps	garlandrain	70 mtr approx	garland drain with bund maintained.
4j	Number of settling ponds	-	-	
4k	Specific comments of inspecting officer on waste dump management	-	-	two seperate dump are maintained.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	-	-	
5b	Area under backfilling of mined out area	-	-	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)			for plantation
5d	Total area fully reclaimed and rehabilitated	-	-	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling- not applicable

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	Not submitted	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha) .	NA	NA	
6d	No. of saplings planted during the year	NA	NA	
6e	Cumulative no .of plants	NA	NA	

6f	Any other method of rehabilitation	NA	na	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	NA	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	no proposal	no proposal	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	no proposal	no proposal	plantatation is done near office and some other area in lease. good plantataion done on barriers/boundary.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.40 ha	0.40 ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	350 saplings	350 saplings	
6p	Compliance of environmental monitoring (core zone and buffer zone)	complied	complied	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation is done near office and barrier of lease

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch	ROM dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	na	na	
7c	Different grade of mineral sorted out at mines.	sizing/sorting	sizing/sorting done	
7d	Any beneficiation process at mines	NA	NA	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Only sizing and sorting is done manually.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	separate stacking	black soil is separately stacked	separate stacking done
8b	Concurrent use or storage of topsoil	Plantation	plantation	Barrier plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	separate dumps for soil, Waste	
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)	Not proposed	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	baseline-1.00 ha start of plan	400 m.sq.-additional done	plantation done on another 400m.q. area

8g	Survival rate	70%	75%	
8h	Water sprinkling on roads to control airborne dust	yes	yes done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Lessee has made efforts to develop barrier plantation on boundary and non-mineral lands in lease and various varieties are planted.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes done	yes done	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	manager, mining engineer given. geologists not given	manager, mining engineer given. geologists not given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The details are given - o/c - 3.5 ha waste disposal - 1.95 infra - 0.40 - plant- 1.6 ha	The details are given - o/c - 3.5 ha waste disposal - 1.95 infra - 0.40 - plant- 1.6 ha	
9d	Scrutiny of Annual return on afforestation	350 plants	350 plants planted	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject. waste below 25% CaO	No mineral reject. waste below 25% CaO	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Stocks at mine - 22353 at year end	information given for stock
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given-Ex mine-381 Rs/T cost of production - 281 Rs/T	Given-Ex mine-381 Rs/T cost of production - 281 Rs/T
9h	Scrutiny of Annual return on fixed assets	The information is given for asset value and loan taken- 8463727rs,3540 000 loan	The infirmation is given for asset value and loan taken
9k	Scrutiny of Annual return on mining machineries	The list of machinery given.	The list of machinery given.

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-FEB-20			
MCDR17	Rule 32(1) (a)	18-FEB-20			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines