

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-283

Mine code : 38MPR47123

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 08-MAR-21
- (v) Prev.inspection date : 22-JUN-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NANHWARA (18.09 HA)**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (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
		MP modif under 17(3) MCR 2016	02-MAR-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	nil	nil	
1b	Exploration over lease area for geological axis 1 or 2	4 BH proposed in 100 mtr grid	4 BH carried out in 100 mtr grid	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	proposed	1.9 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	8.3 Ha in G2	8.3 Ha in G2	
1e	Balance reserve as on 01/04/20	2.92113 MT	2.92113 MT (G1 & G2)	
1f	General remarks of inspecting officers on geology, exploration etc			The occurrence of Limestone in the lease area is stratigraphically controlled and is associated with Semri group of Vindhyan super group. Rocks of this formation comprise of shale, Limestone and dolomite. The lease area belongs to Vindhyan super group in Rohtas Limestone of Semri group.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block 3 - North & East side Block 1 - East side	Block 3 - North & East side Block 1 - East side	

2b	Separate benches proposed in topsoil, overburden and minerals (Rule 15)		In the Eastern part of block-3, the benches have been found merged resulting in highwall between grid coordinates 2656350 N to 2656380 N & 454610 E to 454630 E.	violation pointed out
2c	Stripping ratio or ore to OB ratio	1:0.37	1:0.38	
2d	Quantity of topsoil generation in m3	5,670 m3	5,510 m3	
2e	Quantity of overburden generation in m3	11,115 m3	11,010 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	
3b	Quantity of ROM mineral production proposed	44,888 MT	42,870 MT	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	not proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	

3f	Quantity of sub grade mineral generation.	not proposed	nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	not proposed	no analysis or beneficiation study carried out	
3j	Provision of drilling and blasting in mineral benches	proposed	as per proposal	
3k	Provision of mining machineries in mineral benches	proposed	as per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	In the Eastern part of block-3, the benches have been found merged resulting in highwall between grid coordinates 2656350 N to 2656380 N & 454610 E to 454630 E.	violation pointed out
3m	Total area covered under excavation/pits	3.9 Ha	3.7 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.37	1:0.38	
3o	Total area put in use under different heads at the end of year	7.9 Ha	7.7 Ha	

3p	Production of ROM mineral during the last five year period as applicable	2015-16 44,625 MT	2015-16 44,443 MT	2016-17 44,510 MT	2017-18 44,555 MT	2018-19 44,100 MT	2019-20 42,870 MT
		2017-18 45,010 MT					
		2018-19 44,993 MT					
		2019-20 44,888 MT					

3q General remarks of inspecting officers on method of mining etc.

Opencast other than fully mechanised method of mining was adopted in the lease area .All operation of mining such as development, winning of ore, loading and transport were carried out by HEMM. Also, manual sorting, sizing & loading of mineral was also carried out. Mine development of the the quarry carried out in Block-1 towards east and of quarry in Block-3 towards north and east.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumps of topsoil & OB proposed	Separate dumps of topsoil & OB maintained	
4b	Location of topsoil, OB and mineral reject dumps	Top soil- NE in block 3 OB- SE of block 3	Top soil- NE in block 3 OB- SE of block 3	

4c	Number of dumps within lease area and outside of lease area	Four dumps within lease area	Four dumps within lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside upl	outside upl
4e	Number of active and alive dumps.	03	03
4f	Number of dead dumps.	nil	nil
4g	Number of dumps established.	01	01
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	Garland drain of 200 meters (approx.)
4i	Length of Retaining wall or garland drain all along dumps	proposed	Garland drain 240 meters
4j	Number of settling ponds	one	one
4k	Specific comments of inspecting officer on waste dump management		

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	backfilling not proposed	area not mature enough for backfilling to be carried out	
5b	Area under backfilling of mined out area	nil	nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	topsoil proposed to be used in plantation	topsoil used in plantation	
5d	Total area fully reclaimed and rehabilitated	nil	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			area not mature enough for backfilling to be carried out

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	not submitted	violation pointed out
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	50 Nos	100 Nos	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	

6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	Half yearly monitoring done.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed	ROM dispatch carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	not proposed	nil	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	not proposed	not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM dispatch done & no beneficiation carried out.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	proposed	Top soil is separately stacked
8b	Concurrent use or storage of topsoil	Plantation	Plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	OB is separately stacked
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	OB will be used for backfilling in future.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	Number of trees planted during the year 100 nos within lease
8g	Survival rate	not proposed	75%
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads proposed	Water sprinkling on roads carried out
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	given	A.R. Submitted upto 2019-20. M.R. Submitted upto Mar.2021	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	Manager & Mining Engineer in charge - Shri Ashish Suhane (Mining Engineer)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	Covered under current (O/C) Workings 3.700 Used for waste disposal 2.000 Occupied by plant, buildings, residential, welfare buildings & roads 0.400 Other Purpose (Plantation) 1.600	
9d	Scrutiny of Annual return on afforestation	yes	Number of trees planted is furnished incorrectly.	violation pointed out
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	yes	nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	yes	nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Ex-mine price (in Rs. Per Tonne) for chemical grade limestone-385.00	
9h	Scrutiny of Annual return on fixed assets	yes	Value of Fixed Assets (in Rs) 77 lakhs	
9k	Scrutiny of Annual return on mining machineries	yes	DUMPER 10.000 TONNE 3 Non Electrical Opencast SHOVEL (HYDRAULIC) 0.900 CUM 1 Non Electrical Opencast	

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)	17-MAY-21			
MCDR17	Rule 26(2)	17-MAY-21			
MCDR17	Rule 45(7) (a)	17-MAY-21			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines