

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST- 240

Mine code : 38MPR47100

- (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 : 14-SEP-21
- (v) Prev.inspection date : 06-FEB-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NANHWARA (32.48 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village : NANHWARA
Taluka : VIJAYRAGHAVGARH
Post office : NANHWARA KALA
Pin Code :
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station : KYMORE
- (g) First opening date : 18-JAN-97
- (h) Weekly day of rest :
2. Address for : SHRI TRILOKI NATH AGRAWAL
correspondance : CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR1474
(b) Lease area : 12.97
(c) Period of lease : 20
(d) Date of Expiry : 23-MAR-99
4. Mineral worked : LIMESTONE Main
DOLOMITE Associated

5. Name and Address of the

Lessee : TRILOKI NATH AGRAWAL
CIVIL LINES KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : TRILOKI NATH AGRAWAL
CIVIL LINES KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 08-AUG-08
Plan/Scheme of Mining MP review under 17(1) MCR 2016 14-MAY-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	04 nos	05 nos	
1b	Exploration over lease area for geological axis 1 or 2	G2=28.73 ha	G2=28.73 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	Engeotech Consultant	
1d	Balance area to be explored to bring Geological axis in 1 or 2		G2=28.73 ha & G3 =3.75 ha to be explored in G1	
1e	Balance reserve as on 01/04/20		5.951 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The occurrence of Limestone in the lease area is stratigraphically controlled. 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	(2657140-2657310)N to (454780 to 454970)E	(2657150-2657270)N to (454820 to 454980)E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil overburden and mineral proposed	03 benches in ore of approx. ht between 5-7m and 01 OB bench of height 6-7(approx.) maintained.	
2c	Stripping ratio or ore to OB ratio	1: 0.25	1: 0.26	

2d	Quantity of topsoil generation in m3	13800 m3	2800 m3	violation pointed out under rule 11(1) of MCDR 2017.
2e	Quantity of overburden generation in m3	17103	13950	violation pointed out under rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Working has been carried out in quarry 1 of the ML area in north. The working faces of quarry 1 were being advanced towards south and east. The OB removal has been carried out in 1 bench. Only 13950 m3 of OB is generated against the proposal of 17103 m3 .Only 2800 m3 of topsoil is generated against the proposal of 13800 m3 .The overall excavation is lagging and not as per the proposals in the approved document. Hence, violation pointed out under rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 no	01 no	
3b	Quantity of ROM mineral production proposed	69838 tonnes	52380 tonnes.	Violation pointed out under rule 11(1) of MCDR 2017.

3c	Recovery of sailable/usable mineral from ROM production	100%	100%
3d	Quantity of mineral reject generation	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA
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	Not proposed	Not done
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No analysis or beneficiation study 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	proposed	03 nos of ore benches and 01 no of OB bench of height between 5m to 7m approximately
3m	Total area covered under excavation/pits	5.1 ha	4.68 ha

3n	Ore to OB ratio for the pit/mine during the year.	1: 0.25	1: 0.26	
3o	Total area put in use under different heads at the end of year	7.27 ha	5.93 ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 0 2018-19 69885 2019-20 69555 2020-21 69838	2017-18 0 2018-19 18984 2019-20 26795 2020-21 52380	
3q	General remarks of inspecting officers on method of mining etc.			Opencast other than fully mechanised method of mining is existing in the lease area.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of topsoil & OB proposed	Separate dumping of topsoil & OB maintained	
4b	Location of topsoil, OB and mineral reject dumps	proposed	01 temporary OB dump in the southern portion of the lease area	
4c	Number of dumps within lease area and outside of lease area	01 within lease	01 within lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	NA	NA	

4h	Whether Retaining wall or garland drain all along dumps are there.	garland drain proposed	150 m of garland drain found	
4i	Length of Retaining wall or garland drain all along dumps	not proposed	150 m of garland drain found	
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			Only temporary dumping is proposed. The OB dump will be used for backfilling in the future.

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 from mined out area proposed before starting backfilling	Area not mined out yet to start backfilling.	
5b	Area under backfilling of mined out area	Not proposed	not done	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Topsoil to be used for plantation.	Topsoil used for plantation.	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area not mined out yet to start backfilling process.

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).		Yearly PMCP report has not been submitted for the year 2020-21.	Violation pointed out under rule 26(2) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	not proposed	250 saplings planted during the year	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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 on backfilled area	NA	NA	
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	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	Yearly monitoring carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Yearly PMCP report has not been submitted for the year 2020-21. Hence, violation pointed out under rule 26(2) of MCDR 2017.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch proposed	ROM mineral dispatch adopted	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Not done	

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 mineral dispatch adopted. No beneficiation process at mines carried out.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed.	Topsoil utilised for plantation. Only 2800 m3 of topsoil is generated against the proposal of 13800 m3.	violation pointed out under rule 11(1) of MCDR 2017.
8b	Concurrent use or storage of topsoil	Topsoil proposed to be utilised for plantation	Topsoil utilised for plantation. Only 2800 m3 of topsoil is generated against the proposal of 13800 m3.	violation pointed out under rule 11(1) of MCDR 2017.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Temporary dump for overburden proposed	Temporary dump for overburden maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use proposed	Overburden will be utilised for backfilling in the future.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration, reclamation and rehabilitation of lands affected by mining operations proposed	Phased restoration, reclamation and rehabilitation of lands adopted	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	Yearly PMCP report has not been submitted for the year 2020-21.	violation pointed out under rule 11(1) of MCDR 2017.
8g	Survival rate	Not proposed	65% as per submitted AR	
8h	Water sprinkling on roads to control airborne dust	proposed	As per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around the lease area looks good.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	proposed	Monthly return for the month of August 2021 was not submitted. AR for the year 2020-21 is submitted.	Violation pointed out under rule 45(5)(b) of MCDR 2017.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	proposed	Not furnished	Violation pointed out under rule 45(7) and 55(1)(c)(i) of MCDR 2017.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	proposed	Covered under current (O/C) Workings 4.680 Used for waste disposal 0.650 Other Purpose (PLANTATION) 0.600
9d	Scrutiny of Annual return on afforestation	proposed	Number of trees planted during the year 250 nos
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	proposed	Ex.Mine price is Rs 401.53 for chemical grade
9h	Scrutiny of Annual return on fixed assets	proposed	Value of Fixed Assets (in Rs) 3399590
9k	Scrutiny of Annual return on mining machineries	proposed	ELEC. MOTOR 25.000 HP 2 Electrical DUMPER 25.000 TONNE 1 Non Electrical

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)	21-SEP-21				
Rule 26(2)	21-SEP-21				
Rule 45(5) (b)	21-SEP-21				
Rule 45(7)	21-SEP-21				
Rule 54	21-SEP-21				
MCDR17 Rule 55(1) (3)	21-SEP-21				

Date :

(ROBERT SIMON C)

Indian Bureau of Mines