

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-83

Mine code : 38MPR18041

- (i) Name of the Inspecting : **K006**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller of Mines
- (iii) Accompanying mine : Manoj Roy(Mines Manager)
Official with
Designation
- (iv) Date of Inspection : 13-SEP-21
- (v) Prev.inspection date : 05-FEB-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KACHHAGAWAN (8.30HECT)**
- (b) **Registration NO.** :
- (c) Category : 'A'
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : KACHHGAWAN
Taluka : VIJRAGHAVGARH
Post office : DIWAN SIDING
Pin Code : 483880
FAX No. : 07674-232580
E-mail : snsahr@sancharnet.in
Phone : 07674- 232042, 232089
- (f) Police Station :
- (g) First opening date : 01-JAN-83
- (h) Weekly day of rest : WED
2. Address for : SHRI MADAN LAL GROVER
correspondance CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0205
(b) Lease area : 8.3
(c) Period of lease : 50
(d) Date of Expiry : 03-MAY-32
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

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

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

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	11-JUL-96
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	20-OCT-04
		Mining Scheme rule 12 MCDR1988	31-AUG-09
		Mining Scheme rule 12 MCDR1988	31-MAY-12
		MP review under 17(1) MCR 2016	31-MAR-17

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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	G1= 8.30ha	G1= 8.30ha	
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		1.726 Million tonnes as on 01/04/2021.	
1f	General remarks of inspecting officers on geology, exploration etc			The lease area belongs to Vindhyan super group in Rohtasgarh Limestone of Semri group. Rocks of this formation comprise of shale, Limestone and dolomite. These rocks are structurally disturbed & show northerly dip of 4-45 deg with average dip of 25 deg and general ENE-WSW trend.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E (447200 to 447350) and N(2652840 to 2652940)	E (447220 to 447330) and N(2652860 to 2652930)	

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil overburden and mineral proposed.	Verification of benches could not be carried out as the pit was waterlogged.	violation pointed out under rule 11(1) of MCDR 2017.
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.12	
2d	Quantity of topsoil generation in m3	5310	5200	
2e	Quantity of overburden generation in m3	5994	6100	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The development of the quarry is carried towards north and west. The orientation of the working was along ENE-WSW.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	50040 tonnes	49757 tonnes	
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	

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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.	Not proposed	Not done	
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	04 nos of ore benches and 02 OB benches of heights varying between 5-8 m(approx..) proposed	Verification of benches could not be carried out as the pit was waterlogged.	violation pointed out under rule 11(1) of MCDR 2017.
3m	Total area covered under excavation/pits	3.10 ha	2.862 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.12	
3o	Total area put in use under different heads at the end of year	5.75 ha	5.588 ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 50005 2018-19 50400 2019-20 50400 2020-21 50400	2017-18 8400 2018-19 44860 2019-20 49930 2020-21 49757	
3q	General remarks of inspecting officers on method of mining etc.			Verification of benches could not be carried out as the pit was waterlogged. Violation pointed out under rule 11(1) of MCDR 2017.

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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	In central & southern part	In central & southern part	
4c	Number of dumps within lease area and outside of lease area	02 within lease	02 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.	02	02	
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.	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management			02 OB dumps in Central & Southern part of the lease area are maintained.

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	Full extraction of mineral from mined out area adopted before starting backfilling	

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5b	Area under backfilling of mined out area	Nil	0.532 ha
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Plantation	Plantation
5d	Total area fully reclaimed and rehabilitated	Nil	0.532 ha
5e	General remarks of inspecting officers on backfilling and reclamation etc.		

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).	Proposed	PMCP report not submitted	Violation pointed out under rule 26(2) of MCDR 2017.
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	200 approx.	
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 (Lx B x D	NA	NA	

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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	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)	Nil	Nil

 Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	Not proposed	Not adopted	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process at mines adopted.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil proposed to be utilised for plantation	Topsoil utilised for plantation	
8b	Concurrent use or storage of topsoil	Topsoil proposed to be utilised for plantation	Topsoil utilised for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden waste rock proposed	02 OB dumps maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of overburden, waste rock for restoring the land to its original use proposed	Overburden used in backfilling	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased reclamation proposed	Overburden used in backfilling	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not proposed	Not available	
8g	Survival rate	Not proposed	80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads to control airborne dust adopted.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area needs improvement.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not submitted	Nil	Violation pointed out under rule 45(7) of MCDR 2017.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	AR not submitted	Nil	Violation pointed out under rule 45(7) of MCDR 2017.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR not submitted	Nil	Violation pointed out under rule 45(7) of MCDR 2017.

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9d	Scrutiny of Annual return on afforestation	AR not submitted	Nil	Violation pointed out under rule 45(7) of MCDR 2017.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR not submitted	Nil	Violation pointed out under rule 45(7) of MCDR 2017.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR not submitted	Nil	Violation pointed out under rule 45(7) of MCDR 2017.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR not submitted	Nil	Violation pointed out under rule 45(7) of MCDR 2017.
9h	Scrutiny of Annual return on fixed assets	AR not submitted	Nil	Violation pointed out under rule 45(7) of MCDR 2017.
9k	Scrutiny of Annual return on mining machineries	AR not submitted	Nil	Violation pointed out under rule 45(7) of MCDR 2017.

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed				Show course position		
Rule NO.		Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	20-SEP-21	22-DEC-21			
MCDR17	Rule 26(2)	20-SEP-21	22-DEC-21			
MCDR17	Rule 35(2)	20-SEP-21	22-DEC-21			
	Rule 45(5) (b)	20-SEP-21	22-DEC-21			
	Rule 45(1) (c)	20-SEP-21	22-DEC-21			

Date :**(NARESH KUMAR KATARIYA)**

Indian Bureau of Mines