

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-286

Mine code : 38MPR47129

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Manoj Kumar Roy (Mines Head)
Official with
Designation
- (iv) Date of Inspection : 29-JUN-23
- (v) Prev.inspection date : 13-SEP-21

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 : 9752488888
- (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

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5. Name and Address of the

Lessee : SUMITRA GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone:97524
88888
FAX :N. A.

Owner :
SUMITRA GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone:
6200082537
FAX : N. A.

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 03-JUL-15
Plan/Scheme of Mining MP modif under 17(3) MCR 2016 24-OCT-19

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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 -4.28 ha.	G1 -4.28 ha.	
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	Not specified	0.19 Million Tonnes.	
1f	General remarks of inspecting officers on geology, exploration etc			The ML area lies along the foot hill of the Kymore hill range. The limestone strata dips 50 to 300 northerly. The strike direction is ENE-WSW. Two set of joint pattern is clearly visible in the working faces. One is along the bedding plane and the other set vertical to the bedding plane lead variation in dip amount which does not affect significantly during mining of limestone.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	northern block	northern block	

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	As per proposal
2c	Stripping ratio or ore to OB ratio	1:0.40	1:0.40
2d	Quantity of topsoil generation in m3	3335 CUM	3350 CUM
2e	Quantity of overburden generation in m3	5712 CUM	5775 CUM
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The quarry in northern block were being advanced towards north. The development in OB were carried out in one bench of height 5.75m and width 6.0m to 10m. The development in mineral were carried out from 4 benches.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	57120 MT	57070 MT	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	

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3f	Quantity of sub grade mineral generation.	NA	NA
3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Proposed	As per proposal
3k	Provision of mining machineries in mineral benches	Yes	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	OB 3 Mtrs Minerals 7 Mtrs
3m	Total area covered under excavation/pits	2.95 HA	2.95 HA
3n	Ore to OB ratio for the pit/mine during the year.	1:0:40	1:0:40
3o	Total area put in use under different heads at the end of year	4.24 ha	4.24 ha
3p	Production of ROM mineral during the last five year period as applicable	2018-19 49935 2019-20 57155 2020-21 57167 2021-22 57180 2022-23 57120	2018-19 49905 2019-20 56170 2020-21 56925 2021-22 57090 2022-23 57070

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3q General remarks of inspecting officers on method of mining etc. Opencast semi 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 utilising HEMM.

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 dumps proposed	Separate dumping of topsoil, OB dumps maintained	
4b	Location of topsoil, OB and mineral reject dumps	Three dumps in North East side, One in South and One dump SouthEast side of the lease.	Three dumps in North East side, One in South and One dump South-East side of the lease.	
4c	Number of dumps within lease area and outside of lease area	05 within lease	05 within lease	
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.	05 nos	05 nos	
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 low silt area	
4i	Length of Retaining wall or garland drain all along dumps	Not specified	Garland drain of 100m(approx.) found	

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4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			Temporary dumps simultaneously 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 from mined out area proposed	full extraction of mineral from mined out area yet to be done	
5b	Area under backfilling of mined out area	0.055 ha	0.055 ha	
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	Not specified	0.43 ha	
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	Submitted	
6b	Area available for rehabilitation (ha) .	0.11 ha	0.11 ha	

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6c	afforestation done (ha).	0.10 ha	0.10 ha
6d	No. of saplings planted during the year	100	100
6e	Cumulative no .of plants	Not proposed	Not available
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	0.10 HA	0.10 HA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.10 HA	0.10 HA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.110 Hect	0.110 Hect
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

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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)	Yes	Carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP operations are in accordance with the approved mining plan document.

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 done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines.	Not specified	Cement	
7d	Any beneficiation process at mines .	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process at mines adopted.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil to be utilised for plantation	Topsoil utilised for plantation	
8b	Concurrent use or storage of topsoil	Topsoil 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	Separate dumps for overburden waste rock maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Overburden to be used in backfilling	Overburden used in backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased reclamation of lands by backfilling proposed	Phased reclamation of lands by backfilling adopted	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	not specified inthe approved mining plan	Not available	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling on roads to control airborne dust carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area in fairly good.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	proposed	Online submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Engineer in charge: Manoj Kumar Roy Geologist in charge : Arvind Kumar Tamrakar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	PART-I (Lease area (surface area) utilisation as at the end of year (hectares): The details furnished here shall be submitted based on the survey at the year ending 2022-23.	Violation pointed out under rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	Given	100 plants	
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	Given	36.537 T Cement closing stock	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	385.65- Ex mine & Sale price. 261.34-COP	
9h	Scrutiny of Annual return on fixed assets	Given	Rs.1189900	
9k	Scrutiny of Annual return on mining machineries	Given	PART-V (Type of Machinery): The details of machinery reported is inconsistent with the actual ones that were observed and pointed out during the inspection.	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			Showcause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 31(4)	08-AUG-23	06-OCT-23			
Rule 33	08-AUG-23	06-OCT-23			
Rule 45(7)	08-AUG-23		Rule 45(7)	09-OCT-23	12-DEC-23

Date :

(ROBERT SIMON C)

Indian Bureau of Mines