

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

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-65

Mine code : 38MPR47026

- (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, Mining Engineer & Manager (Mine
Official with
Designation
- (iv) Date of Inspection : 26-SEP-23
- (v) Prev.inspection date : 12-JUL-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMEHTA**
- (b) **Registration NO.** : **IBM/747/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : AMEHTA
Taluka : V.GARH
Post office : KAHANGAON
Pin Code :
FAX No. : 07622404992
E-mail : ranjan_grover4@yahoo.com
Phone : 07622405474, M.No. 9893355
- (f) Police Station : VIJARAHHOGARH
- (g) First opening date : 06-MAR-76
- (h) Weekly day of rest : SUN
2. Address for : SHRI RANJAN GROVER
correspondance : CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR1368
(b) Lease area : 18.33
(c) Period of lease : 50
(d) Date of Expiry : 05-MAR-46
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : RANJAN GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone:
9752488888
FAX :N. A.

Owner : RANJAN GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone:
9752488888
FAX : N. A.

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	05-JUL-96
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	14-FEB-03
		Modif.of approved Mining Plan	10-MAR-05
		Mining Scheme rule 12 MCDR1988	28-MAR-12
		Mining Scheme rule 12 MCDR1988	22-APR-14
		Renewal under rule 24 MCR1960	24-DEC-14
		MP modif under 17(3) MCR 2016	29-JUN-20

PART - II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

EXPLORATION :

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	NA	
1c	Exploration Agency	Not proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not proposed	The lease area has already explored under G-1.	
1e	Balance reserves	Not specified	111-1409385 T	
1f	General remarks of Inspecting officer 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. Rocks of this formation comprise of shale, Limestone and Dolomite. These rocks are structurally undisturbed.		

Development :

Sl.No.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	North and west of quarry between the coordinates N2655400 - N2655700 & E452790- E453085 from 362 mRL to 335 mRL	Not carried out as per the approved resulting in depthwards as well as lateral deviations as against the approved proposals.	Violation pointed out under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Proposed	maintained	-
2c	Stripping ratio or ore to OB ratio		1:0:47	-

2d	Quantity of topsoil generation in m ³	11250	10200	
2e	Quantity of overburden generation in m ³	11633	49250 reported	Violation pointed out under Rule 11(1) of MCDR 2017.
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Excavation was proposed towards north and west of quarry between the coordinates N2655400 -N2655700 & E452790- E453085 from 362 mRL to 335 mRL. But during the year, development & production was not carried out as per the approved resulting in depthwards as well as lateral deviations as against the approved proposals.Hence Violation pointed out under Rule 11(1) of MCDR 2017.		

Exploitation :

Sl.No.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM production proposed (2022-23)	250005 MT	249930 MT	
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	No mineral reject generation
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	No mineral reject generation
3f	Quantity of sub-grade mineral generation	Nil	Nil	No sub-grade mineral generation
3g	Grade of sub-grade mineral generation	Nil	Nil	No sub-grade mineral generation
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub- grade mineral and reject	Nil	Nil	No sub-grade mineral generation

3j	Provision of drilling & 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 OB and mineral suitable for method of mining proposed in MP/SOM	Yes	Lateral & depthwise deviation observed in the pit.	Violation pointed out under Rule 11(1) of MCDR 2017.
3m	Total area covered under excavation /pits	Not specified	9.3 ha	Violation pointed out under Rule 45(7) of MCDR 2017.
3n	Ore to OB ratio for the pit/mine during the year		1:0:47	
3o	Total area put in use under different heads at the end of year	Not specified	Incorrectly reported in AR	Violation pointed out under Rule 45(7) of MCDR 2017.
3p	Production of ROM mineral during last five-year period, as applicable	2018-19 2019-20 2020-21 2021-22 2022-23 (till date)	99600 100200 193048 200215 250005	99580 74360 96540. 71 199900 249930
3q	General remarks of inspecting officer on method of mining etc	Production was proposed towards north and west of quarry between the coordinates N2655400 -N2655700 & E452790-E453085 from 362 mRL to 335 mRL. But during the year, development & production was not carried out as per the approved resulting in depthwards as well as lateral deviations as against the approved proposals. Hence Violation pointed out.		

Solid waste management-dumping :

Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Not proposed	Nil	
4b	Location of topsoil, OB & mineral reject dumps	Not proposed	Nil	
4c	Number of Dumps within lease area and outside lease area	Not proposed	Nil	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of Active & Alive dumps	Not proposed	Nil	
4f	Number of dead dumps	Not proposed	Nil	
4g	Number of dumps established	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Nil	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific commends officer on waste dump management	External dumping neither proposed nor carried out. Only backfilling of mined out area in practice as per proposal. Top soil generated during mining operation are also utilised for preparation of bunds.		

Solid waste management-backfilling :

Sl.No.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling proposed on Southern part of mined out area	Carried out	
5b	Area under backfilling of mined out area	Not specified for the year	1.4 ha	
5c	Concurrent use of Topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not specified	For topping of the backfilled area	
5d	Total area fully rehabilitated	Not specified	1.4 ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling & reclamation were being carried out in the mined out area of the lease.		

Progressive mine closer plan

Sl.No.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26(2). Details should be given in the format as given in Annexure-20	Yes	Annual report on PMCP has been Submitted.	
6b	Management of worked/mined out benches	Nil	NA	
	i)Area available for rehabilitation (Ha)	Nil	NA	
	ii)Afforestation done (ha)		1.7	
	iii)No. of saplings planted during the year		160	

	iv) Cumulative no. of plants	Not specified for the year	300 (approx.)
	v) Any other specific method of rehabilitation	Nil	Nil
	vi) Cost incurred on watch & care during the year	Not specified	NA
6c	Compliance on reclamation and rehabilitation by backfilling	NA	NA
	i) Voids available for backfilling (L X B X D)		
	ii) Void filled by waste/tailings		
	iii) Afforestation on the backfilled area		
	iv) Rehabilitation by making water reservoir		
	v) Any other specific means		
6d	Compliance of Rehabilitation of waste land within lease	NA	NA
	i) Afforestation		
	ii) Area rehabilitated (ha)		
	iii) Method of rehabilitation		
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environment monitoring proposed	Carried out
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Afforestation being done on green belt.	

Mineral conservation :

Sl.No.	Item	Proposals	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	Manual sorting proposed	Manual sorting done	
7c	Different grade of mineral sort out at mine	Not specified	Cement grade Lst.	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks on Mineral conservation & beneficiation issues	ROM mineral dispatch after manual sorting being done in inspecting officer the lease.		

ENVIRONMENT

Sl.No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Proposed	Carried out	
8b	Concurrent use or storage of topsoil	For plantation over backfilled area	Carried out	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Generated waste quantity was proposed to be backfilled.	Generated waste quantity was backfilled.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Generated waste was proposed to be used for backfilling during conceptual period	Carried out	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Green belt was proposed to be developed	Carried out
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	160 nos of saplings planted.
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	yes	Regular Water sprinkling on roads to control airborne dust is in practice by lessee's water tanker.
8i	General remarks of Aesthetic beauty in and around mine area needs inspecting officer improvement. on aesthetic beauty in and around mine area		

Compliance of rule 45 :

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and Annual returns	Returns to be submitted online.	Returns submitted online.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager : Manoj Kumar Roy; Mining Engineer in charge: Nil; Geologist in charge : Arvind Kumar Tamrakar	The detail of Mining Engineer in charge was not furnished.	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.	Given	The details wrt to Lease area (surface area) utilisation as at the end of year is incorrectly furnished	Violation pointed out under Rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	Given	Description Within lease area Outside lease area i) Number of trees planted during the year 200 0 ii) Survival rate in percentage 80 0 iii) Total no. of trees at the end of the year 160 0	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Given	Opening stock : Nil Production : 249930.000 Cement grade Closing stock : Nil	
9g	Scrutiny of Annual return on sale value, Ex Mine price & production costs	Given	Cost of production - Rs.227.64; Ex mine price- Rs.308.78	
9i	Scrutiny of Annual return on Fixed assets	Given	Rs.6043372	
9k	Scrutiny of Annual return on mining Machineries	Given	Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of	

machinery
 Electrical
 Nonelectrical
 (specify)
 Used in
 opencast
 underground
 (specify)
 FRONT END LOADER 1.200
 CUM 1 Non Electrical
 Opencast
 DUMPER 16.000 TONNE 4
 Non Electrical
 Opencast
 DUMPER 10.000 TONNE 3
 Non Electrical
 Opencast
 PUMPS (NON-ELEC.)
 650.000 L/MN 1 Non
 Electrical Opencast
 WATER TANKER 5000.000
 LITRE 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
Rule 11(1)	09-JAN-24		Rule 11(1)	03-MAY-24	21-MAY-24
Rule 31(4)	09-JAN-24	09-APR-24			
Rule 33	09-JAN-24	09-APR-24			
Rule 45(7)	09-JAN-24	09-APR-24			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines