

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-289

Mine code : 38MPR35275

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri. Vinay Krishna Ojha (Mines Head), Shri. Indraneel
Official with
Designation
- (iv) Date of Inspection : 28-JUN-23
- (v) Prev.inspection date : 17-DEC-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PIPRAHAT (8.093 HA)**
- (b) **Registration NO.** :
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : PIPRAHAT
Taluka : MAIHAR
Post office : BHADANPURA
Pin Code :
Phone :
Police Station :
- (f) First opening date : 01-JUN-04
- (g) Weekly day of rest :
2. Address for : Naushad Bhagwagar
correspondance Gulab Rai Building Opp Nagar Nigam
Katni. cimmcolime@gmail.com
3. (a) Lease Number : MPR2356
- (b) Lease area : 8.07
- (c) Period of lease : 50
- (d) Date of Expiry : 30-MAR-53
4. Mineral worked : LIMESTONE Main

I/16763/2023

5. Name and Address of the

Lessee : CIMMCO LIME AND MINERALS
Gulab Rai Building Opp Nagar Nigam
Katni.
cimmcolime@gmail.com
Phone: 9422802128

Owner : Naushad Bhagwagar
Gulab Rai Building Opp Nagar Nigam
Katni.
cimmcolime@gmail.com
Phone: 9422802128

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	22-NOV-02
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	20-OCT-11
		Mining Scheme rule 12 MCDR1988	27-JAN-16
		MP review under 17(1) MCR 2016	10-MAY-19

I/16763/2023

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	Not proposed	G2-8.068 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	Not proposed	G2-8.068 HA to be explored in G-1.	
1e	Balance reserve as on 01/04/20	Not specified.	122-3002230 T(Grade: CaO: 37-48.36%,MgO: 1.05-3.21%, SiO2: 4.68-14.73%) as per latest MP document.	
1f	General remarks of inspecting officers on geology, exploration etc			The Limestone beds are gentle to moderately dipping (30 deg.) towards North and belongs to Semri Group formation. The surface area is mostly covered by blanket of lateritic soil/Murum followed by alternate band of Limestone and thin bands of shale. The occurrence of limestone in the lease area is stratigraphically controlled and is associated with Semri Group of Vindhyan Super Group

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

I/16763/2023

2a	Location of development w.r.t.lease area	EW-120-250 NS-292-323	EW-120-250 NS-292-323	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	RL-392-387 Soil-Nil OB-1 (2m) Mineral-2 Nos.	RL-392-387 Soil-Nil OB-1 (2m) Mineral-2 Nos.	
2c	Stripping ratio or ore to OB ratio	1:0.06	1:0.10	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	7957 m3	15914 m3 .	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			15914 m3 of OB/waste generated against the proposal of 7957 m3 of OB/waste generation for the year 2022-23 resulted in increased Stripping ratio. 10320 m3 of lateritic soil is generated against nil proposal for the year 2022-23. The stacking of mineral stack & dumping of waste material is not done as per the approved mining plan.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	01	
3b	Quantity of ROM mineral production proposed	159168 MT	159140 MT	

I/16763/2023

3c	Recovery of sailable/usable mineral from ROM production	80%	80%
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	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	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	Yes found suitable
3m	Total area covered under excavation/pits	3.735 Ha	3.735 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.06	1:0.10

I/16763/2023

3o	Total area put in use under different heads at the end of year	6.0988 ha	5.8893 ha	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 Lapse 2019-20 154312 2020-21 155463 2021-22 156816 2022-23 159168	2018-19 - 2019-20 59829 2020-21 154310 2021-22 156550 2022-23 159140	
3q	General remarks of inspecting officers on method of mining etc.			HEMM is being used for excavation and transportation of mineral, screening is being under use for segregation.

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 OB proposed	During inspection it was observed that the overburden/soil and mineral in the northern portion of the lease between the coordinates E 477070 to E 477090 found mixed instead of stack/dump separately.	Violation pointed out under rule 14 of MCDR 2017.
4b	Location of topsoil, OB and mineral reject dumps	Along barrier zone ,north and west.	Along barrier zone ,north and west.	
4c	Number of dumps within lease area and outside of lease area	Within Lease-2	WL-South-One North-One	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Central West 7.5 barrier zone	Central West 7.5 barrier zone and temporarily south of lease.	
4e	Number of active and alive dumps.	02	02	
4f	Number of dead dumps.	01	01	
4g	Number of dumps established.	01	01	

I/16763/2023

4h	Whether Retaining wall or garland drain all along dumps are there.	Not specified	Garland drain along dump-300m(approx.)	
4i	Length of Retaining wall or garland drain all along dumps	Not specified	Garland drain along dump-300m(approx.)	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			During inspection it was observed that the overburden/soil and mineral in the northern portion of the lease between the coordinates E 477070 to E 477090 found mixed instead of stack/dump separately. Violation pointed out under rule 14 of MCDR 2017.

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 before starting backfilling proposed	full extraction of mineral from mined out area before starting backfilling adopted	
5b	Area under backfilling of mined out area	0.045	0.045, Central south barrier zone	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Stacking within 7.5m barrier zone	Stocked in 7.5m barrier zone, N,W (580 M3)	
5d	Total area fully reclaimed and rehabilitated	0.045 Ha	0.045 Ha	

I/16763/2023

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling & reclamation is being carried out in the mined out area & Central south barrier zone.
----	--	--

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) .	Nil	0.072 Ha	
6c	afforestation done (ha).	0.045 ha	0.072 ha	
6d	No. of saplings planted during the year	10	80	
6e	Cumulative no .of plants	Not specified	800 (Survival 75%).Along lease boundary and backfilled area.	
6f	Any other method of rehabilitation	Not proposed	Not done	
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	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	

I/16763/2023

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	There is no waste land available till 2022-23.
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	Yearly monitoring of air, water & noise done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closer operations is carried by and large as per approved proposals

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

I/16763/2023

7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanised	Blended mechanically by excavator at site only	
7c	Different grade of mineral sorted out at mines.	Not specified	SMS	
7d	Any beneficiation process at mines .	Not specified	Not done.	
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)	Not proposed	Nil	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump proposed.	No mineral Reject and fine proposed. Waste stocked south at lease on Temporarily basis.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling in central west 7.5m barrier zone for plantation	7.5m barrier zone in central west backfilling and rest waste rock stocked in south of lease (Temporarily basis)	

I/16763/2023

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Only 7.5m barrier zone central west to reclaim	It is reclaimed and rehabilitated by plantation (0.045 Ha)	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	10 Nos. Trees	80 Nos. Plantation this year-800 nos(approx.) . along lease boundary and backfilled area	
8g	Survival rate		75%	
8h	Water sprinkling on roads to control airborne dust	Proposed	It is done by water tanker at mine road.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Online submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Manager : LALJI TIWARY Mining Engineer in charge: K N OJHA Geologist in charge : NIKHIL GADIKAR	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C working- 3.735 Ha Reclaimed- 0.045 Ha OB & Waste Dump-1.1105 ha Mineral Storage-0.08 Ha.	Part -I, S.No.12 Lease area (surface area) utilisation as at the end of year (hectares): The details wrt the area used for waste disposal is inconsistent with that of the quantity furnished in the latest mining plan document submitted for approval.	Violation pointed out under rule 45(7) of MCDR 2017.

I/16763/2023

9d	Scrutiny of Annual return on afforestation	Yes	Plantation 80 Nos.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		Not proposed
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM stocks on 01/04/2023-79.500MT (SMS grade)
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Sale Value -Rs.302/MT Ex-Mine- Rs. 300/MT Production Cost-Rs.259 (Including Royalty, DMF, NMET, Taxes etc.)
9h	Scrutiny of Annual return on fixed assets		Rs. 2312895
9k	Scrutiny of Annual return on mining machineries	Given	One hydraulic excavator with two dumper combination used for mineral winning on hire basis. One compressor with JH. Drill used for drilling.

I/16763/2023

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 11(1)	04-SEP-23				
Rule 14	04-SEP-23				
Rule 45(7)	04-SEP-23				

Date :

(ROBERT SIMON C)

Indian Bureau of Mines