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**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 : Ritesh Agrawal (lessee Representative), Chandan Kumar (M  
Official with  
Designation
- (iv) Date of Inspection : 28-JUN-23
- (v) Prev.inspection date : 14-DEC-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **NANHWARA (32.48 HA)**
- (b) **Registration NO.** : **IBM/5052/2011**
- (c) Category : A Mechanised
- (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. : 07622406378  
E-mail : shyamsunderstonelimeco@gmail.com  
Phone : 7622406378
- (f) Police Station : KYMORE
- (g) First opening date : 18-JAN-97
- (h) Weekly day of rest : SUN
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 : 30  
(d) Date of Expiry : 07-MAY-27
4. Mineral worked : LIMESTONE Main  
DOLOMITE Associated

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## 5. Name and Address of the

Lessee : TRILOKI NATH AGRAWAL  
CIVIL LINES KATNI MADHYA  
PRADESH  
Phone:  
7622406378  
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

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## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	14 boreholes	Nil	Violation pointed out under Rule 11(1) of MCDR 2017.
1b	Exploration over lease area for geological axis 1 or 2	Nil	32 hect of lease area already explored under G2 level.	
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	Area to be explored - 8.98	Violation pointed out under Rule 11(1) of MCDR 2017.
1e	Balance reserve as on 01/04/20	Not specified	122-5512427 T	
1f	General remarks of inspecting officers on geology, exploration etc			Deposit is bedded stratiform and tabular deposit of regular habit. About 8.98 hect area of lease are yet to be explored. Violation pointed out under Rule 11(1) of MCDR 2017.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N2657125 to N2657250 and E454800 to E454980	N2657125 to N2657250 and E454800 to E454980	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil overburden and mineral proposed	Separate benches in topsoil overburden and mineral maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.38	1:0.38	

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2d	Quantity of topsoil generation in m3	10150	9000	
2e	Quantity of overburden generation in m3	23112	23100	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			RMP of the mine with proposal period from 2022-23 to 2026-27 submitted and got approved in which proposal of mining had changed from old proposed quarry no.1 to quarry no.2 & quarry no.4. benches in OB and mineral were found maintained. Development appears to be inline with RMP proposals.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	60080 T	59900 T	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Not proposed	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Not proposed	Not applicable	

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3g	Grade of sub grade mineral generation	Not applicable	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed	Screeners and crushers were used for segregation and sizing
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Not carried out.
3j	Provision of drilling and blasting in mineral benches	Proposed with 2.4-2.5mX2-2.2mX2.8-2.9m blast pattern	As per proposal
3k	Provision of mining machineries in mineral benches	Yes	Type of No.of units Mech, DUMPER 16TONNE 2 SHOVEL 1.200 CUM 1 (HYDRAULIC Rock Drill 48mmdia 1
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Found suitable
3m	Total area covered under excavation/pits	Not specified	6.58 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.38	1:0.38
3o	Total area put in use under different heads at the end of year		8.18 ha
3p	Production of ROM mineral during the last five year period as applicable	2018-19 69885 2019-20 69555 2020-21 69838 2021-22 69810 2022-23 60080	2018-19 18984 2019-20 26795 2020-21 52380 2021-22 69750 2022-23 59900

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3q	General remarks of inspecting officers on method of mining etc.	Opencast mechanised method of mining were being adopted. Development, winning of ore, loading and transport will be carried out by utilising HEMM. Drilling and blasting will be of depth 2.9m. Bench height has been proposed up to 6m. Width of the bench will be equal to or more than the height of the bench.
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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	Northern portion towards quarry no 4 .	Northern portion towards quarry no 4 .	
4c	Number of dumps within lease area and outside of lease area	08	08	
4e	Number of active and alive dumps.	04 active & 04 inactive	04 active & 04 inactive	
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	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	

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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.

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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 before starting backfilling adopted.	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Topsoil to be used for spreading over backfilled area	Part of the top soil reportedly utilised for plantation purpose and partly utilised for spreading over backfilled area.	
5d	Total area fully reclaimed and rehabilitated	Not proposed	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area not matured for backfilling and reclamation.

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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 as per proposal	

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6b	Area available for rehabilitation (ha) .	Nil	Nil
6c	afforestation done (ha).		0.8 HA
6d	No. of saplings planted during the year		800 APPROX.
6e	Cumulative no .of plants	Not provided	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	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 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



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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)	Yes	As per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mine is not matured for reclamation and rehabilitation. Only reclamation and rehabilitation of degraded area of statutory barrier zone was proposed and accordingly carried out by the lessee.

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**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch after grade wise sorting within lease area proposed	ROM mineral dispatch after grade wise sorting within lease area done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting	Manual sorting	

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7c	Different grade of mineral sorted out at mines.	Not specified	BF & Cement grade	
7d	Any beneficiation process at mines	Not proposed only manual sorting	Not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no issue related with mineral conservation.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	Separate removal and utilization of topsoil done	
8b	Concurrent use or storage of topsoil	Proposed for spreading over barrier area and plantation purpose.	As per proposal	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, there are proposal for separate dumping of OB, waste rock	As per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There is no proposal against the year under review in this regard.	Not done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Rehabilitation proposed.	Rehabilitation done	

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed	800 approx.plantation done	
8g	Survival rate	Not proposed	70%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling on roads to control airborne dust done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area needs improvement.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Monthly as well as Annual Return were submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer in charge: CHANDAN KUMAR Geologist in charge : PRAKASH CHAND PRAJAPAT	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area (surface area) utilisation as at the end of year (hectares): Under forest Outside forest Total (i) Already exploited and abandoned by opencast (O-C) mining 0.000 0.000 0.000 (ii) Covered under current (O-C) Workings 0.000 6.580 6.580 (iii) Reclaimed-rehabilitated 0.000 0.000 (iv) Used for waste disposal 0.000 1.500 1.500 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.100 0.100 (vi) Used for any other purpose (specify) PLANTATION 0.000 0.800 0.8
9d	Scrutiny of Annual return on afforestation	Yes	Trees planted- survival rate Description Within lease area Outside lease area i) Number of trees planted during the year 1200 100 ii) Survival rate in percentage 70 90 iii) Total no. of trees at the end of the year 2570 0
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	Closing stock at mine-head: BF-16265.120 T Cement-21750.690 T
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex mine price: BF-Rs.375.55 Cement-Rs.300.10.  Cost of production per tonne of ore-mineral produced=Rs.267.42

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9h	Scrutiny of Annual return on fixed assets	Yes	Value of Fixed Assets (Rs. 2765708)	
9k	Scrutiny of Annual return on mining machineries	Type of machinery Capacity of eachtype ofmachinery Unit(in whichcapacity isreported) No. ofmachinery Electrical Nonelectrical (specify) Used inopencastunde rground(specif y) DUMPER 16.000 TONNE 2 Non Electrical Opencast SHOVEL (HYDRAULIC) 1.200 CUM 1 Non Electrical Opencast PUMPS (ELEC.) 10.000 L/MN 1 Electrical Opencast	PART-V S.No.6. Type of Machinery: The details wrt to drills was not provided despite the usage of explosives as mentioned in PART-IV (Consumption of Explosives).	Violation pointed out under Rule 45(7).

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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)	21-AUG-23				
Rule 31(4)	21-AUG-23				
Rule 33	21-AUG-23				
Rule 45(7)	21-AUG-23				

Date :

(ROBERT SIMON C)

Indian Bureau of Mines