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**MCDR inspection REPORT**

**Jabalpur regional office**

**Mine file No :** MP/KTN/LST-209

**Mine code :** 38MPR47040

- (i) Name of the Inspecting : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : B.P.Mishra (Mine Mgr), Vivek Dubey (Lessee's Representat  
Official with  
Designation
- (iv) Date of Inspection : 26-AUG-23
- (v) Prev.inspection date : 22-FEB-21

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BADARI**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village : BADARI  
Taluka :  
Post office : KATNI  
Pin Code :  
FAX No. : N. A.  
E-mail : dubey.84@gmail.com  
Phone : 9753360028
- (f) Police Station : KATNI
- (g) First opening date : 30-NOV-92
- (h) Weeklv dav of rest : SUN
2. Address for : SHRI ASHOK KUMAR DUBEY  
correspondance NADI PAR, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0603  
(b) Lease area : 10.25  
(c) Period of lease : 50  
(d) Date of Expiry : 23.11.42
4. Mineral worked : LIMESTONE Main

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## 5. Name and Address of the

Lessee : ASHOK KUMAR DUBEY  
 & SMT.SUNITA & VIDHYA DEVI  
 DUBEY NADI PAR, KATNI  
 MADHYA PRADESH  
 Phone:  
 9753360028  
 FAX :N. A.

Owner : ASHOK KUMAR DUBEY  
 & SMT.SUNITA & VIDHYA DEVI  
 DUBEY, NADI PAR KATNI  
 MADHYA PRADESH  
 Phone:97533  
 60028  
 FAX : N. A.

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	24-JAN-06
		Mining Scheme rule 12 MCDR1988	26-FEB-08
		Mining Scheme rule 12 MCDR1988	06-JUN-12
		MP review under 17(1) MCR 2016	16-DEC-16
		MP MODIF under 17(3) MCR 2016	16-AUG-22

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during the year	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Exploration is carried out in G2 scale	Exploration is carried out in G2 scale	
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	G2-10.246	
1e	Balance reserve as on 01/04/20		Reserves as on 01.04.2023 122 : 675330 Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The lease area from a part of the Semri Group and comprises rocks belonging to Rohtas formation of lower Vindhyan system consists limestone which is grey, light gray, fine to Medium Grained and Slightly fractured. limestone is soft and stratified. The limestone is bedded with intercalations of argillaceous material and inter bedded with shale. Massive, thickly bedded limestone is found. Inter beds of shale is observed. Rocks of this formation comprise of shale and Limestone.

Development :

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Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It is proposed to develop quarry towards North and working is along East-West	Development is carried out as per proposals.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Overburden and Mineral benches is to be maintained seperately	Overburden and Mineral benches are found maintained seperately	
2c	Stripping ratio or ore to OB ratio	1 : 0.02	1 : 0.02	
2d	Quantity of topsoil generation in m3	1689 m3	Nil	Violation pointed out under rule 11(1) of MCDR 2017.
2e	Quantity of overburden generation in m3	1805	1900	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Nil Topsoil is generated and stacked against the proposal of 1689 m3 of topsoil generation, hence violation was pointed out.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	78885	77545	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal for generation of Mineral reject is anticipated	NA	

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3e	Grade of mineral rejects generation and threshold value declared.	NA	NA
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	Mechanised method adopted for segregation of ROM	Mechanised method adopted
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal of carrying out any beneficiation study	Nil
3j	Provision of drilling and blasting in mineral benches	Deep hole Drilling and Blasting is proposed with Spacing of 2.4 meters and Burden 2.2 meters of bore holes with High Explosives to excavate mineral	Deep hole Drilling and Blasting is being carried out to as proposed
3k	Provision of mining machineries in mineral benches	Excavator- 1.2 cum- 2 No., Dumper- 10 Tonne- 5 No & 16 T- 18 No.s. Rock Drill- 01 No	above machineries are found deployed in the lease
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes boom length of 1.2 cum capacity excavator is suitable for bench height of 6 meters.	Yes suitable.
3m	Total area covered under excavation/pits	9.53 Ha	9.53 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.02	1 : 0.02

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3o	Total area put in use under different heads at the end of year	9.96 Ha	9.73 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 : 103000 2019-20 : 120425 2020-21 :118360 2021-22 : 107277 2022-23 : 78885	2018-19 79400 2019-20 79061 2020-21 79144 2021-22 79020 2022-23 77545	
3q	General remarks of inspecting officers on method of mining etc.			Fully mechanised method of mining deploying HEMM is being carried out by maintaining bench height of 6 meters and width more than height.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Only waste/ OB dump is maintained as there is no proposal of mineral reject generation. top soil generation is anticipated	Nil Topsoil is generated and stacked against the proposal of 1689 m3 of topsoil generation for the year 2022-23	Violation pointed out under rule 11(1) of MCDR 2017.
4b	Location of topsoil, OB and mineral reject dumps	OB dumping is being carried out on South of Quarry-2	As proposed	Nil Topsoil is generated and stacked against the proposal of 1689 m3 of topsoil generation for the year 2022-23.Violation pointed out under rule 11(1) of MCDR 2017.
4c	Number of dumps within lease area and outside of lease area	02	02	

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of active and alive dumps.	01	01	
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.	215 m retaining wall proposed	Not done	Violation pointed out under rule 11(1) of MCDR 2017.
4i	Length of Retaining wall or garland drain all along dumps	215 m retaining wall proposed	Not done	Violation pointed out under rule 11(1) of MCDR 2017.
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management			Nil Topsoil is generated and stacked against the proposal of 1689 m3 of topsoil generation for the year 2022-23. It was proposed to construct 215 m Retaining wall from N 2657692 E 455947 to N 2657796 E 455829. But the same was not constructed. Violation pointed out under rule 11(1) of MCDR 2017.

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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.	Entire mineral to be excavate before backfilling proposed	Entire mineral to be excavate before backfilling adopted.	

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5b	Area under backfilling of mined out area	1.4 ha	1.4 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation	Nil Topsoil is generated and stacked against the proposal of 1689 m3 of topsoil generation for the year 2022-23.	Violation pointed out under rule 11(1) of MCDR 2017.
5d	Total area fully reclaimed and rehabilitated	0.3 ha	0.3 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling carried out is not reported in the Annual Returns. Violation was pointed out under Rule 45(7).

## 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) .	1.4 ha	1.4 ha	
6c	afforestation done (ha).	0.52 ha	0.52 ha	
6d	No. of saplings planted during the year	500 saplings	609 saplings	
6e	Cumulative no .of plants	Not specified	2800 nos approx.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.8 ha	0.8 ha	



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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.8 ha	0.8 ha	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	
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)	Quarterly monitoring of Air, water, Noise to be carried out	Quarterly monitoring of Air, water, Noise is being carried out regularly.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Yearly report on PMCP submitted in time and Plantation is being carried out to improve aesthetic beauty.

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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 ore produced shall be dispatched	ROM ore produced is dispatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised method to be adopted for sorting of ore	Mechanised method adopted for sorting of ore	

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7c	Different grade of mineral sorted out at mines.	BF grade	BF grade	
7d	Any beneficiation process at mines	No such proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process is adopted in mines. ROM mineral is dispatched.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Nil Topsoil is generated and stacked against the proposal of 1689 m3 of topsoil generation for the year 2022-23.	Violation pointed out under rule 11(1) of MCDR 2017.
8b	Concurrent use or storage of topsoil	Plantation	Nil Topsoil is generated and stacked against the proposal of 1689 m3 of topsoil generation for the year 2022-23.	Violation pointed out under rule 11(1) of MCDR 2017.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only waste dumps is proposed to be maintained	Only waste dumps is maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There is proposal to backfill the waste in mined out area	backfilling is adopted.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	There is proposal to backfill the waste in mined out area	backfilling is adopted.	

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	Nil	
8g	Survival rate	about 85%	about 85%	
8h	Water sprinkling on roads to control airborne dust	It was proposed to suppress the dust with water sprinkling on Haul road, working area	Water sprinkling on Haul road, working area is being carried out to suppress the dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is being carried out to improve aesthetic beauty.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual return shall be submitted on time as per statute.	Monthly and Annual return are being submitted on time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager : B.P MISHRA Mining Engineer in charge: VIVEK DUBEY Geologist in charge : 1	The details of Mining Engineer is incorrectly furnished. Also the name of Geologist is not given.	Violation pointed out under rule 45(7) of MCDR 2017.

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(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 9.530 9.530 (iii) Reclaimed-rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.150 0.150 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.050 0.050 (vi) Used for any other purpose (specify) GREEN BELT 0.000 0.520 0.520 (vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000	Part -I, S.No.12 Lease area (surface area) utilisation as at the end of year (hectares): The details wrt the area used for Reclaimed-rehabilitated is incorrect	Violation pointed out under rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	Given	609 saplings are planted in the lease area	
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 of BF grade- 7398.180 Tonnes.	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex mine price of BF grade-7398.180 Tonnes. Cost of production per tonne of ore-mineral produced- Rs.291.60
9h	Scrutiny of Annual return on fixed assets		

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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 11(1)	10-NOV-23	28-JAN-24			
Rule 12	10-NOV-23	28-JAN-24			
Rule 31(4)	10-NOV-23	28-JAN-24			
Rule 33	10-NOV-23	28-JAN-24			
Rule 45(7)	10-NOV-23	28-JAN-24			
Rule 45(7)	10-NOV-23	28-JAN-24			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines