

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION
MCDR Inspection REPORT
Jabalpur Regional office

Mine code: 38MPR426001

(i)	Name of Inspecting officer	:	Shri Madhavrao Sabre
(ii)	Designation	:	Sr. Mining Geologist
(iii)	Accompanying mine official with Designation	:	1. Ramanand Tiwari, Mine Manger 2. Jagannath Patel, Asst. Mine Manager
(iv)	Date of Inspection	:	15.10.2024
(v)	Previous Inspection date	:	28.12.2023

PART-I: GENERAL INFORMATION

1	(a)	Mine Name	:	Birahuli Limestone Mine
	(b)	Registration Number	:	IBM/7485/2011
	(c)	Category	:	Fully Mechanized
	(d)	Type of Working	:	Opencast
	(e)	Postal address	:	
		State	:	Madhya Pradesh
		District	:	Satna
		Village	:	Birahuli
		Taluka	:	Raghurajnagar
		Post Office	:	Babupur
		Pin code	:	485001
		Fax	:	-
		email	:	sbearthmovers@gmail.com
		Phone No	:	8348289881
	(f)	Police Station	:	Kolgawan
	(g)	First Opening date	:	16.05.2022
	(h)	Weekly day of rest	:	Wednesday
2		Address for Correspondence	:	Jaiswal Bhawan, JR Birla Road, Kolgawan, Satna, M.P. 485001
3	(a)	Lease Area	:	29.951 ha
	(b)	Period of lease	:	50 years (26.12.2020 to 25.12.2070)
	(c)	Date of Expiry	:	25.12.2070
4		Mineral Worked (Main)	:	Limestone
5		Name of address of the Lessee with Phone, email and fax number	:	Mukund Jaiswal, Address: Jaiswal Bhawan, JR Birla Road, Kolgawan, Satna, M.P. 485001 Mob: 8348289881 Email: sbearthmovers@gmail.com
		Name of address of the Owner/Nominated Owner with Phone, email, fax number and Date of appointment	:	Mukund Jaiswal, Address: Jaiswal Bhawan, JR Birla Road, Kolgawan, Satna, M.P. 485001 Mob: 8348289881 Email: sbearthmovers@gmail.com

	Name of address of the Agent with Phone, email, fax number and Date of appointment	:	Ramanand Tiwari Address: Deokripa, Santoshi Vihar Colony, PO: Birla Vikash Satna, M.P. 485005 Mob: 8770438694 Email: rntiwari0101@gmail.com Date of appointment – 12.09.2024
	Name of address of the Manager with Phone, email, fax number and Date of appointment	:	Ramanand Tiwari Address: Deokripa, Santoshi Vihar Colony, PO: Birla Vikash Satna, M.P. 485005 Mob: 8770438694 Email: rntiwari0101@gmail.com Date of appointment – 12.09.2024
	Mining Engineer Name Qualification Date of Appointment	:	Ramanand Tiwari Qualification – Diploma in Mining and Mine Surveying & First Class Mine Manager Certificate under MMR 1961 Date of appointment – 12.09.2024
	Geologist Name Qualification, Date of Appointment	:	Brij Nandan Mishra Qualification – M.Tech. (Applied Geology) Date of appointment – 01.01.2023
6	Date of approval of Mining Plan/Review of Mining Plan etc.	:	No. E 11908 MCDR-MPCOLST/38/2024-JBP-IBM_RO_JBP Dt : 26/11/2024 Plan period 2025-26 to 2029-30

PART- II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration: (2023-24)

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	13 holes, 390 m	-	
1b	Exploration over lease area for Geological axis 1 or 2	-	13 holes, 385 m	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	-	Core Drilling Agency: Jaiswal Enterprises, Bhopal Expenditure: ₹7.71 Lacs	
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	-	-Area under G1: 10.5200 Area under G2: 19.4310	Area under G1: 10.5200 Area under G2: 19.4310 Above-mentioned core hole drilling was completed in FY 23-24 but analysis is conducted in the current year to bring total area under G1 category.
1e	Balance reserves as on 01.04.2023	4,905,156 MT as on 01.04.2023	4,856,182 MT as on 01.04.2024	4,856,182 MT as on 01.04.2024
1f	General remarks of Inspecting officer on geology, exploration etc.	The lease area from a part of the Bhandar Group and comprises rocks belonging to Nagod 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 mud stone / Reject stone. Biruhali is situated in the		

		northern extent of upper Bhandar Basin and hence mud stone (reject stone) is deposited in layers. Somewhere stromatolite is developed in choclaly calcareous limestone i.e. also waste limestone (refer paper on stromatolite by R.K. Mishra, Lucknow). In general strike of limestone is North 80 degree west - South 80 degree east. The amount of dip usually varies from 1 to 2 degree towards NNE direction. Mostly the formations are nearly horizontal to sub-horizontal. The area is structurally simple and evidence of any structural disturbance viz. major fold or fault is not present in the lease area. Two set of joint pattern is clearly visible in exposures. 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. Cavities in the Limestone strata are developed to the vertical plane which fill soil occasionally and sometimes remain void.
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Development (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	2722650N-2722810N to 490680E-490860E (Area next to boundary pillar no 5 & 6)	2722460N-2722540N to 490775E-490900E (Area next to boundary pillar no. 7 & 8)	Pit not developed on proposed area for which violation issued.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes; proposed	Yes; Maintained	
2c	Stripping ratio or ore to OB ratio	1:0.75	1:1.39	As mining operations commenced in FY 22-23 against plan period of FY 20-21 to 24-25, the development in OB and mineral during the year is disproportionate compared to the proposal in Mining Plan
2d	Quantity of topsoil generation in m3	8400	16839	
2e	Quantity of overburden generation in m3	31406	20647	Violation issued for short fal
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Pit not developed on proposed area for which violation issued.		

3. Exploitation FY (2023-24)

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	102060	48974	Violation issued for Shortfall.

3c	Recovery of Salable/usable minerals from ROM production	100%	100%																																					
3d	Quantity of mineral reject generation	Nil	Nil																																					
3e	Grade of mineral reject 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/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																																					
3j	Provision of drilling & blasting in mineral benches	Yes	Yes																																					
3k	Provision of mining machineries in mineral benches	1. Compressor-Atlas Copco-2 no.-110 cfm 2. Jack hammer-32mm-110-4 no.-210 hp 3. IBH 10-1no.-115mm 4. Excavator-L&T PC 200-1no.-1.2 cum 5. Dumper-Tata-3no.-10t 6. Dumper-Tata-8 no.-18t 7. Water Tanker with sprinkler-5000 litre	1. Compressor-Atlas Copco-1 no.-110 cfm 2. Atlas Copco ROC210-1no.-115mm 3. Excavator-Hyundai220-1no.-0.9 cum 4. Dumper-Tata- 6 no.-18 t 5. Water Tanker with sprinkler- 3000 litre																																					
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m	6 m																																					
3m	Total area covered under excavation /pits (Ha.)	2.920	1.800																																					
3n	Ore to OB ratio for the pit/mine during the year	1:0.75	1:1.39																																					
3o	Total area put in use under different heads at the end of year	<table border="1"> <thead> <tr> <th>Head</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>Mining (Pit)</td> <td>2.920</td> </tr> <tr> <td>Top-soil dump</td> <td>0.800</td> </tr> <tr> <td>OB dump</td> <td>2.400</td> </tr> <tr> <td>Mineral storage</td> <td>0.500</td> </tr> <tr> <td>Roads</td> <td>0.100</td> </tr> <tr> <td>Green belt</td> <td>1.100</td> </tr> <tr> <td>Others</td> <td>0.200</td> </tr> <tr> <td>Total</td> <td>8.020</td> </tr> </tbody> </table>	Head	Area (ha)	Mining (Pit)	2.920	Top-soil dump	0.800	OB dump	2.400	Mineral storage	0.500	Roads	0.100	Green belt	1.100	Others	0.200	Total	8.020	<table border="1"> <thead> <tr> <th>Head</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>Mining (Pit)</td> <td>1.800</td> </tr> <tr> <td>Top soil dump</td> <td>0.200</td> </tr> <tr> <td>Ob dump</td> <td>0.418</td> </tr> <tr> <td>Mineral storage</td> <td>0.756</td> </tr> <tr> <td>Roads</td> <td>0.215</td> </tr> <tr> <td>Green belt</td> <td>0.252</td> </tr> <tr> <td>Others</td> <td>1.198</td> </tr> <tr> <td>Total in use</td> <td>4.839</td> </tr> </tbody> </table>	Head	Area (ha)	Mining (Pit)	1.800	Top soil dump	0.200	Ob dump	0.418	Mineral storage	0.756	Roads	0.215	Green belt	0.252	Others	1.198	Total in use	4.839	
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3p	Production of ROM	FY 20-21	33600	-																																				

	mineral during last five-years period, as Applicable	FY 21-22	70240	-	
		FY 22-23	98200	31170.67	
		FY 23-24	102060	48974	
3q	General remarks of inspecting officer on method of mining etc.	Production proposal not achieved so violation issued.			

4. Solid Waste Management-Dumping (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of top soil and OB	Separate dumping of top soil and OB	
4b	Location of topsoil, OB & mineral reject dumps	OB dump –Southwest side of ML Soil dump – Northwest side of ML	As per proposal	
4c	Number of Dumps within lease area and outside lease area	02 dumps (1 topsoil & 1 OB dump)	02 dumps (1 topsoil & 1 OB dump)	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of Active & Alive dumps	02 dumps (1 topsoil & 1 OB dump)	02 dumps (1 topsoil & 1 OB dump)	
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	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	300 m	118 m	
4j	Number of settling ponds	02	01	
4k	Specific comments of inspecting officer on waste dump management	Mining operations started recently in the mine, all operations are in nascent stage.		

5. Solid Waste Management-Backfilling (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Full extraction of mineral proposed	Full extraction of mineral proposed	
5b	Area under backfilling of mined out area	-	-	
5c	Concurrent use of topsoil for restoration or	-	-	

	rehabilitation of mined out area (Rule 32)			
5d	Total area fully reclaimed & rehabilitated (Ha)	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling was not proposed, as full extraction of mineral was yet to be achieved.		

6. Progressive Mine Closure Plan (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E (2). Details should be given in the format as given in Annexure-20	Yes	Yes. Submitted along with Annual Return for FY 23-24	
6b	Area available for rehabilitation (Ha)	NA	NA	
6c	Afforestation done (ha)	NA	NA	
6d	No. of saplings planted during the year	NA	NA	
6e	Cumulative no. of plants	NA	NA	
6f	Any other specific method of rehabilitation	NA	NA	
6g	Cost incurred on watch & care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	NA	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	NA	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the 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	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	NA	NA	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	
6p	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Yes; Reported to both MPPCB and MoEFCC	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Regular environmental monitoring carried out.		

7. Mineral Conservation (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
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7a	ROM mineral dispatch or grade wise sorting within lease area	ROM	ROM	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No grade-wise sorting	No grade-wise sorting	
7c	Different grade of mineral sort out at mine	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM mineral was dispatched.		

8. Environment (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Used for plantation	Used for plantation	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	-	-	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation along mine boundary. Proposed 400 saplings	Plantation along mine boundary. Planted 400 saplings	
8g	Survival rate	80%	85%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes, being followed	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area			

9. Compliance of Rule 45 (2023-24)

S.N.	Item	Comments	Remarks																											
9a	Status of submission of monthly and Annual returns	The Monthly and Annual Returns are being timely submitted																												
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Appointed Geologist- Appointed																												
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<table border="1"> <thead> <tr> <th>Head</th> <th>Proposed area (ha)</th> <th>Actual area (ha)</th> </tr> </thead> <tbody> <tr> <td>Mining (Pit)</td> <td>2.920</td> <td>1.800</td> </tr> <tr> <td>Top-soil dump</td> <td>0.800</td> <td>0.200</td> </tr> <tr> <td>OB dump</td> <td>2.400</td> <td>0.418</td> </tr> <tr> <td>Mineral storage</td> <td>0.500</td> <td>0.756</td> </tr> <tr> <td>Roads</td> <td>0.100</td> <td>0.215</td> </tr> <tr> <td>Green belt</td> <td>1.100</td> <td>0.252</td> </tr> <tr> <td>Others</td> <td>0.200</td> <td>1.198</td> </tr> <tr> <td>Total</td> <td>8.020</td> <td>4.839</td> </tr> </tbody> </table>	Head	Proposed area (ha)	Actual area (ha)	Mining (Pit)	2.920	1.800	Top-soil dump	0.800	0.200	OB dump	2.400	0.418	Mineral storage	0.500	0.756	Roads	0.100	0.215	Green belt	1.100	0.252	Others	0.200	1.198	Total	8.020	4.839	
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9d	Scrutiny of Annual return on afforestation	Plantation of 400 trees was proposed. 400 saplings were planted by lessee.																												
9e	Scrutiny of Annual return on mineral	NA																												

	reject generation (Grade & Quantity)		
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Opening Stock: 27022.395 MT Production : 48974.000 MT Dispatch : 48134.500 MT Closing Stock : 27861.895 MT (as on 31.03.24)	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Yes. Ex Mine Price- 392.07 Cost of production- 315.13	
9i	Scrutiny of Annual return on Fixed assets	Yes. Closing Balance: ₹54,66,000/-	
9k	Scrutiny of Annual return on mining Machineries	Yes furnished.	

Violation observed			Show cause Position		
Rule no.	Issued on	Compliance on	Rule no.	Issued on	Compliance on
11(1), of MCDR 2017	13.03.2025				