

I/25265/2024

**General**

S.N.	Particulars	Details
1	Name of the Mine	Birahuli Limestone Mine
	Date of Inspection:	28.12.2023
	Name of Inspecting Officer	Shri Abhishek Ranjan Gautam
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	29.591 Ha. Forest land- Nil Non-forest – 29.591 Ha
3	Mine code	38MPR426001
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/7485/2011
5	Name of the Lease, Address, Phone, email and fax number	Birahuli Limestone Mine Birahuli, Raghurajnar, Satna (M.P) Phone - 8348289881 Email - sbearthmovers@rediffmail.com
6	Village	Birahuli
7	Taluka/Mandal	Raghurajnar
8	District	Satna
9	Pin code	485001
10	State	M.P.
11	Post Office	Babupur
12	Nearest Police Station	Kolgawan
13	Nearest Railway Station	Satna
14	Date of Grant of Mining Lease	13.07.2015
15	Date of Execution	26.12.2020
16	Date of opening of Mine	16.05.2022
17	Date of First Renewal, if applicable and its period & expiry	----
18	Date of Second Renewal, if applicable and its period & expiry	----
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	----
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	----
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mithilesh Choudhary Address:- At-Kolgawan, P.O-Satna, Dist-Satna (M.P)-485001 Phone -7875646961 Email- mithi196@gmail.com Date of appointment – 10.08.2023
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mithilesh Choudhary Address:- At-Kolgawan, P.O-Satna, Dist-Satna (M.P)-485001 Phone -7875646961 Email- mithi196@gmail.com Date of appointment – 10.08.2023
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mithilesh Choudhary Address:- At-Kolgawan, P.O-Satna, Dist-Satna (M.P)-485001 Qualification – B.Tech(Mining Engineering) Total experience – 20 yr Phone -7875646961

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		Date of appointment – 10.08.2023
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes.  <u>Geologist:</u> Mr. B. N. Mishra Address - House no. 660, village - Shivrajpur, Tehsil - Nagod, District Satna (M.P.) 485001 Qualification – M.Tech. (Applied Geology)
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Vide Letter: MP/SATNA/LIMESTONE/MPLN/G-08/13-14/3741 dated 09.07.2014 Plan Period- 01.04.2020 to 31.03.2025
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	09.07.2014
27	Mineral(s) granted in lease and approved for Mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non-Captive	Non-Captive

### Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	-	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	13 Hole	Nil	Violation pointed out under rule 11(1)
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	-	29.951 ha	
1e	Balance reserves as on 01.04.2023	4905156 Tonnes		
1f	General remarks of Inspecting officer on geology, exploration etc.	Exploration not done as per proposal made in mining plan. Violation pointed out.		

### Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	2722650N-2722810N to 490680E-490860	2722460N-2722540N to 490775E-490900	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes proposed	Being maintained	
2c	Stripping ratio or ore to OB ratio	1:0.74	1:0.97	
2d	Quantity of topsoil generation in m <sup>3</sup>	8343 m <sup>3</sup>	11467 m <sup>3</sup> (insitu)	
2e	Quantity of overburden generation in m <sup>3</sup>	29540 m <sup>3</sup>	23904 m <sup>3</sup> (insitu)	Violation pointed out
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	production and development work was proposed in the grid interval 2722650N-2722810N to 490680E-490860 (area adjacent to pillar number 5 and 6). But the production and		

development work was done in a different place than the proposed place. Violation pointed out under rule 11(1).

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**Exploitation**

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed (2021-22)	98200 t	31170.670 t	Violation pointed out under rule 11(1)
3c	Recovery of Salable/usable mineral from ROM production	80%	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	-	-	
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.-10 t 6.Dumper-Tata-8 no.-18 t 7.Water Tanker with sprinkler-5000 litre	1.Compressor-Atlas Copco-1 no.-110 cfm 3.Atlas Copco ROC210-1no.-115mm 4.Excavator-Hyundai220 -1no.-0.9 cum 6.Dumper-Tata- 6 no.-18 t 7.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	

		MCDR-MIFLOL ST/1347/2023-JBP-IBM_RQ-JBP			
3m	Total area covered under excavation /pits	2.920 ha	0.865 ha		
3n	Ore to OB ratio for the pit/mine during the year	1:0.74	1:0.97		
3o	Total area put in use under different heads at the end of year	Head	Area (ha)	Head	Area (ha)
		Mining (Pit)	2.920	Mining (Pit)	0.865
		Top-soil dump	0.800	Top soil dump	0.534
		OB dump	2.400	Ob dump	0.823
		Mineral storage	0.500	Mineral storage	2.875
		Roads	0.100	Roads	0.285
		Green belt	1.100	Green belt	0.256
		Others	0.200	Others	1.716
		Total	8.020	Total in use	7.353
		3p	Production of ROM mineral during last five-years period, as Applicable	2020-21	
2021-22				0	
2022-23	98200			31170.670	
2023-24	102060			20725 t (till Nov-2023)	
2024-25					
3q	General remarks of inspecting officer on method of mining etc	Violation pointed out under rule 11(1) for less development & production.			

### Solid Waste Management-Dumping- No Proposal

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 – West and 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 (1 topsoil & 1 OB dump)	02 (1 topsoil & 1 OB dump)	
4f	Number of deed 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	1500m in 5 years	300m	
4j	Number of settling ponds	02	01	
4k	Specific commends of inspecting officer on waste dump management	Separate dumping of topsoil & OB were being maintained within the lease area.		

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**Solid Waste Management-Backfilling**

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	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No comments		

**Progressive Mine Closer Plan**

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 FY 22-23 on 30.06.23	
6b	Management of worked/mined out benches	NA	NA	
	i) Area available for rehabilitation (Ha)	NA	NA	
	ii) Afforestation done (ha)	NA	NA	
	iii) No.of saplings planted during the year	NA	NA	
	iv) Cumulative no. of plants	NA	NA	
	v) Any other specific method of rehabilitation	NA	NA	
	vi) Cost incurred on watch & care during the year	NA	NA	

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6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	NA	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Yes Reported	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	No comments		

**Mineral Conservation**

S.N.	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	No Grade wise sorting	No Grade wise sorting	Cement Grade Limestone Dispatched
7c	Different grade of mineral sort out at mine	NA	NA	
7d	Any beneficiation process at mines	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Beneficiation process not adopted at mines. ROM mineral dispatch being done.		

**Environment**

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 dumps for restoring the land to its original use			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-	-	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation along boundary. Proposed no. 400 saplings	Plantation along boundary. Actual plantation 500 saplings	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	being done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Beneficiation process not adopted at mines. ROM mineral dispatch being done.		

**Compliance of Rule 45**

S.N.	Item	Comments			Remarks
9a	Status of submission of monthly and Annual returns	Annual Return for FY 22-23 submitted on 30.06.23 Monthly Return till Nov-2023 submitted timely			
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.	Head	Proposed area (ha)	Actual area (ha)	
		Mining (Pit)	2.920	0.865	
		Top-soil dump	0.800	0.534	
		OB dump	2.400	0.823	
		Mineral storage	0.500	2.875	
		Roads	0.100	0.285	
		Green belt	1.100	0.256	

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		MCDR-MIFLOLST/1347/2023-JBP-IBM-RO-JBP		
		Others	0.200	1.718
		Total	8.020	7.353
9d	Scrutiny of Annual return on afforestation	Plantation of 400 trees was proposed. 500 saplings were planted by lessee.		
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	NA		
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Production : 31170.670 MT Dispatch : 4148.275 MT Closing Stock : 27022.395 MT (as on 31.03.23)		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Yes. Ex Mine Price- 414.82 Cost of production- 325.10		
9i	Scrutiny of Annual return on Fixed assets	Yes. ₹51,00,500/-		
9k	Scrutiny of Annual return on mining Machineries	Yes. Machinery log book maintained.		

Details of Validations observed during current inspection and compliance position of earlier violation pointed out:-

**Rule – 11(1) of MCDR 2017 dated 30/01/2024**

Date: 06.02.2024

Name: Abhishek Ranjan Gautam

Designation: Assistant Mining Engineer