

MCDR INSPECTION REPORT**General**

S.N.	Particulars	Details
1	Name of the Mine	Badanpur Limestone Mine
	Date of Inspection:	20/10/2023
	Name of Inspecting Officer	Ibrahim Sharief
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area – 23.23 HA Forest Area - Nil
3	Mine code	38MPR35278
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/5097/2011
5	Name of the Lease, Address, Phone, email and fax number	M/s. KJS Cement (I) Limited, Ground Floor, Unit No.- 005 Copia Corporate Jasola Jasola New Delhi -110044
6	Village	Badanpur
7	Taluka/Mandal	Maihar
8	District	Maihar
9	Pin code	231207
10	State	Madhya Pradesh
11	Post Office	Badanpur
12	Nearest Police Station	Maihar
13	Nearest Railway Station	Maihar
14	Date of Grant of Mining Lease	02/02/2005
15	Date of Execution	02/02/2005
16	Date of opening of Mine	01.07.2005
17	Date of First Renewal, if applicable and its period & expiry	Date of Expiry –1.02.2055
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	Mr Neeraj Kumar Verma, Verma House No.17, Raghurajnaragar Satna Madhya Pradesh 485001
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Kameshwar Prasad Nigam
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Prabhat Dubey
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Prabhat Dubey
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	YES / Shri Satpal Singh Raghuvanshi. Date of Appointment – 23/11/2023
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	26/03/2004 & 8/2/2006
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	11/06/2012 and 15/09/2020

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 2022-23	No proposal, 10 bore holes to be drilled during the years 2020-21 & 2021-22	10 bore holes drilled during the year	
1b	Exploration over lease area for Geological axis 1 or 2.	21.03 Ha	21.03 Ha	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	No proposal	About 10.04 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	No proposal	Nil	
1e	Balance reserves as on 01.04.2023	As on 01.04.2020: 122 - : 5.832459 million tonnes 222 - : 3.270374 million tonnes Reserves Depleted during 2022-23 : 3467510 Tons Total ; 3460510 tons Balance : 5.464949 million tonnes Tons Additional exploration by 10 no. of bore holes carried out. Reserves are revised		
1f	General remarks of Inspecting officer on geology, exploration etc.	<p>Geology: - The occurrence of limestone in the ML area is stratigraphically controlled and is associated with Semri group of Vindhyan super group. Rocks of this formation comprise of shale and limestone. These rocks are structurally undisturbed having local folds at places. The general trend in NE-SW with dip of 4 degree to 40 degree North West. The general Succession of different lithological unit is given below: Recent: Soil: 0.50m to 1.8m. Shale: 1.0m to 1.75m. Semri group: Limestone: 18.0m to 28.0m Shale: Contd.</p> <p>Exploration: - 21.03 ha of lease area has been explored in G1 scale</p>		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Towards North & West side of Pit	Development is being done as proposed	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate bench for Top Soil, Ob and Mineral bench to be developed	Separate bench for top soil, Ob and Mineral development is found maintained	
2c	Stripping ratio or ore to OB ratio	1:0.15	1:0.25	
2d	Quantity of topsoil generation in m ³	12700	Nil	
2e	Quantity of overburden generation in m ³	36804	36900	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	The mine is developed as per approved proposals		

Exploitation

S.N	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed (2022-23)	472815 T	367510 T	
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	NA	
3f	Quantity of sub-grade mineral generation	Not proposed	NA	
3g	Grade of sub-grade mineral generation	Not proposed	NA	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized method adopted	Mechanized method adopted	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	No beneficiation study carried out	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling and Blasting using high explosives	Drilling and Blasting is being carried out as proposed	
3k	Provision of mining machineries in mineral benches	Shovel PC-2.3 M ³ , Dumper- 16T	Shovel PC-2.3 M ³ , Dumper- 16T	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 6 Mtr is suitable for the proposed capacity of the mine	Yes suitable	
3m	Total area covered under excavation /pits	14.35	10.92	
3n	Ore to OB ratio for the pit/mine during the year	1:0.015	1:0.025	
3o	Total area put in use under different heads at the end of year	17.80	14.53	
3p	Production of ROM mineral during last five-years period, as Applicable	18-19	Nil	Nil
		19-20	Nil	Nil
		20-21	Nil	Nil
		21-22	434625	Nil
		22-23	472815	367510
3q	General remarks of inspecting officer on method of mining etc	Fully mechanized method of mining with deep hole drilling and blasting is being carried out..		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumps of top soil & waste is proposed	Separate dumps of top soil & waste is maintained	

4b	Location of topsoil, OB & mineral reject dumps	proposed	as per proposal	
4c	Number of Dumps within lease area and outside lease area	03 within lease area	03 within lease area	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	within UPL, 2670679 N 480569 E	within UPL, 2670679 N 480569 E	Temporary dumps will be re-handled
4e	Number of Active & Alive dumps	03	03	
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	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific commends of inspecting officer on waste dump management	Waste dumps are managed as per proposals		

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	Yes, full extraction of mineral from mined out area before starting backfilling is proposed	Backfilling is being carried out as proposed	
5b	Area under backfilling of mined out area	0.096 Ha	0.096 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Yes top soil generated to be used for restoration of mined out area	Top soil is being used plantation	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling has been carried out as proposed		

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).	To be submitted as per statute	Submitted in time	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	No proposal for mined out benches.	Nil	
	ii) Afforestation done (ha)	No proposal for mined out benches.	NIL	
	iii) No. of saplings planted during the year	No proposal for mined out benches.	NIL	

	iv) Cumulative no. of plants	No proposal for mined out benches.	NIL	
	v) Any other specific method of rehabilitation	No proposal for rehabilitation of mined out benches.	NIL	
	vi) Cost incurred on watch & care during the year	Not applicable.	NIL	
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	--- 0.05 0.05 Ha No Proposal No Proposal No Proposal	0.05 Ha 0.05 Ha NIL NIL NIL	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	No proposals NIL No Proposal	Nil Nil Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environment monitoring (core zone & buffer zone) is to be done	Environment Monitoring is being carried out	Air/Noise / Water being done.
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Plantation is being done as proposed, environment monitoring is being carried out. Backfilling is being carried out without approved proposal, in this regard violation was pointed out.		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Entire ROM produced to be dispatched	367510 Tonnes of ROM produced is dispatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal	Nil	
7c	Different grade of mineral sort out at mine	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Limestone above threshold value is being sold		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes Topsoil generated is to be removed separately and utilized over backfilled area	Yes as proposed	
8b	Concurrent use or storage of topsoil	Yes proposed for concurrent reuse	Yes utilized	

8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mined out pit to be used for backfilling Proposal	Yes backfilling is being carried out	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	200 saplings planted during the year	375 saplings planted	
8g	Survival rate	No proposal	About 90%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to be carried out to control airborne dust	Yes Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Green Belt is developed in and around lease area to improve aesthetic beauty.		

Compliance of Rule 45

S.N	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns Annual return & Monthly returns shall be submitted in Time as per statute	Annual return & Monthly returns are being submitted in Time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager.	Mining Engineer- Shri Anil Kumar Verma, Geologist-Shri Satpal Singh Raghuvanshi have been employed in the mine	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit Area- 12.45 Waste Disposal- 2.15 Ha Infrastructure & Other – 0.85 Ha	Within FA Limit
9d	Scrutiny of Annual return on afforestation	360 Nos planted in the lease area.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil, No Subgrade Mineral rejected below threshold.	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	No stocks	No stocks
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex mine price Rs. 316.64 COP-Rs. 316.64	Material is being used in own industry
9i	Scrutiny of Annual return on Fixed assets	FA= Rs. 13388878/-	

9k	Scrutiny of Annual return on mining Machineries	ROCK DRILL (NON ELEC.)	100 MM	1	
		SHOVEL (HYDRAULIC)	1.2 CUM	1	
		TIPPER	16 Tonne	4	
		WATER TANKER	10000 LITRE	1	

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

Nil

Date:

Name: IBRAHIM SHARIEF

Designation: Dy. Controller of Mines