

MCDR INSPECTION REPORT

1	Name of Inspecting officer:	Mr. Madhavrao Sabre
2	Designation	Sr. Mining Geologist
3	Accompanying mine official with Designation	Shri Rajkumar, Satpal singh Raghuwanshi
4	Date of Inspection	28.10.2023
5	Previous Inspection date	24 th June 2019

Part-I: General

S.No	Particulars	Details
1	Name of the Mine	Bhatia Limestone Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land: NIL Non-forest land: 4.29 Ha.
3	Mine code	38MPR35018
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/5097/2011
5	Name of the lessee, Address, Phone, email and fax number	Name of the Lessee: M/s. KJS Cement (I) Limited Address: NH-7 Rewa Road, Rajnagar, Maihar-485771 Phone: 07672-239900 Email: mines@kjscement.com Fax: 07672-239911
6	Village	Bhatia
7	Taluka/Mandal	Maihar
8	District	Satna
9	Pin code	485771
10	State	Madhya Pradesh
11	Post Office	Bhatia
12	Nearest Police Station	Nadan
13	Nearest Railway Station	Maihar
14	Date of opening of Mine	November ,1983
15	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Name of the Nominated Owner : Shri Neeraj Kumar Verma Address: NH-7 Rewa Road, Rajnagar, Maihar-485771 Phone: 07672-239900 Email: mines@kjscement.com Fax: 07672-239911 Date of Appointment: 07.12.2013
16	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Name of the Agent : Shri K P Nigam Address: NH-7 Rewa Road, Rajnagar, Maihar-485771 Phone: 07672-239900 Email: kp.nigam@kjscement.com Fax: 07672-239911 Date of Appointment: 22.06.2019
17	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Rajkumar Address: NH-7 Rewa Road, Rajnagar, Maihar-485771 Phone: 07672-239900 Email: rajtata2006@rediffmail.com Fax: 07672-239911 Date of Appointment: 10.11.2022

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18	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mr. Raj Kumar appointed as Mining Engineer Address: NH-7 Rewa Road, Rajnagar, Maihar-485771 Phone: 07672-239900 Email: rajtata2006@rediffmail.com Fax: 07672-239911
19	Whether Geologist (with details of appointment) and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Satpal Singh Raghuwanshi appointed as Geologist Date of Appointment: 10.11.2021 Mr. Raj Kumar appointed Mining Engineer
20	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	Scheme of Mining Date of approval- 05.08.2019 Letter No. - MP/Satna/Limestone/M. Scheme -51/2014-15 Period: 2019-20 to 2022-23
21	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Review of Mining Plan Date of approval- 23.01.2024 Letter No. - E 8996 MCDR-MPCOLST/56/2023-JBP-IBM_RO_JBP Period: 2023-24 to 2027-28
22	Mineral(s) granted in lease and approved for Mining	Limestone
23	Method of Mining (Opencast, Underground)	Opencast
24	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
25	Captive/Non-Captive	Captive

Details about Mining Plan/ Review of Mining Plan etc

a) Letter No. and date of approval of mining plan	:	Letter No. - MP/Satna/Limestone/RMP -05/2019-20, Date of approval- 05.08.2019
b) Letter No. and date of approval of review of mining plan	:	Letter No. - Letter No. - E 8996 MCDR-MPCOLST/56/2023-JBP-IBM_RO_JBP , Date of approval- 23.01.2024
c) Condition while approving the MP/ RMP/ modification	:	NA
d) Period of mining plan/ mining scheme in force :	:	2023-24 to 2027-28

PART III-MCDR Report details.

1. **Scientific Mining:** Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year (before 2022-23)	04	04 (DTH)	Done on 30.09.22
1b	Exploration over lease area for Geological axis 1 or 2 (for 2022-23)	Nil	Nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year (for 2022-23)	The lessee company itself	The lessee company itself under the supervision Geologist	
1d	Balance area to be explored to bring the Geological axis in 1 or 2. (for 2022-23)	Entire lease area under G1	Entire lease area under G1	
1e	Balance reserves as on 01.04.2023	537537 T	537537 T	
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 shale. In general strike		

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		<p>of limestone is North 42 degree West - South 42 degree East with significant plunging of strike towards north east direction. The amount of dip usually varies from 1 to 4 degree towards South west 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.</p> <p>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.</p>
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2. Development (FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	N2686900 to N2686985, E488860 to E488930	2686800 N - 2686983 N and 488823 E - 488940 E	There was deviation from proposal so violation issued.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate Bench for Topsoil/OB 3 m and The 2 nd & 3 rd benches will be in limestone 6 m	Separate Bench for Topsoil/OB 3 m and The 2 nd & 3 rd benches will be in limestone 6 m	
2c	Stripping ratio or ore to OB ratio	1:0.17	1:0.17	
2d	Quantity of topsoil generation in m3	398	270	
2e	Quantity of overburden generation in m3	2933	3000	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Pit was not developed as per proposal so violation issued. Mining was done in 7.5 m barrier also , for which violation issued.		

3. Exploitation FY 2022-23

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	01	-
3b	Quantity of ROM mineral production proposed	43668 Tonnes	43523 Tonnes	-
3c	Recovery of Salable/usable minerals from ROM production	43668 Tonnes	43668 Tonnes	-
3d	Quantity of mineral reject generation	No Mineral rejects found.	No Mineral rejects found.	-
3e	Grade of mineral reject generation and threshold value declared	No Mineral Rejects, 34% CaO	No Mineral Rejects, 34% CaO	-
3f	Quantity of sub-grade mineral generation	No Mineral sub grades	No Mineral sub grades	-
3g	Grade of sub-grade mineral generation	No Mineral sub grades	No Mineral sub grades	-
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	Not proposed	NIL	-
3j	Provision of drilling & blasting in mineral benches	Drilling & blasting will be done as per parameter spacing:	As per proposal	-

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		1.0m Burden: 0.8m Depth of hole: 1.5m Dia of hole: 32m		
3k	Provision of mining machineries in mineral benches	Rock drill 01 nos. Back hoe: 01 nos. Transportation: Dumpers 02 nos, water tanker	Rock drill 01 nos. Back hoe: 01 nos. Transportation: Dumpers 02 nos, water tanker	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches in overburden and mineral proposed 3 m for OB & 6 m for mineral	Height of benches in overburden and mineral proposed 3 m for OB & 6 m for mineral	-
3m	Total area covered under excavation /pits (Ha.)	2535 Sq. M	2535 Sq. M	-
3n	Ore to OB ratio for the pit/mine during the year	1:0.17	1:0.17	-
3o	Total area put in use under different heads at the end of year	Mining: 2.05 ha. Roads: 0.30 ha.. OB/waste dump: 0.353.	Mining: 2.05 ha. Roads: 0.30 ha.. OB/waste dump: 0.353.	-
3p	Production of ROM mineral during last five-years period, as Applicable	Year	Proposals	Actual Work
		2018-19	Lapse period	Nil
		2019-20	45986	Nil
		2020-21	41560	Nil
		2021-22	50260	39993.56
		2022-23	43668	43523
3q	General remarks of inspecting officer on method of mining etc.	Production proposed was achieved, bench height of 6 m maintained in mineral.		

4. Solid Waste Management-Dumping (FY2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	The top soil Proposed in 2022-2023 398 m ³ and OB/waste proposed 2933 m ³	The top soil Generated in 2022-2023 418 m ³ and OB/waste proposed 3000 m ³	
4b	Location of topsoil, OB & mineral reject dumps	OB Dump	2686882 N - 2686909 N and 488718 E - 488755 E	Dumping not done as per proposal for which violation issued
4c	Number of Dumps within lease area and outside lease area	01	01	Partly outside the lease for which violation pointed.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	2686882 N - 2686909 N and 488718 E - 488755 E	2686882 N - 2686909 N and 488718 E - 488755 E	

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4e	Number of Active & 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	YES	Yes	-
4i	Length of Retaining wall or garland drain all along dump	Nil	Garland drain 55.5 M	-
4j	Number of settling ponds	Nil	01	-
4k	Specific comments of inspecting officer on waste dump management	Dumping is done outside the lease, for which violation pointed.		

5. Solid Waste Management-Backfilling (FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	1500 Sq M	1408 Sq M	-
5b	Area under backfilling of mined out area	1500 Sq M	1408 Sq M	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	398 m ³	418 m ³	Used for plantation
5d	Total area fully reclaimed & rehabilitated (Ha)	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Full extraction of mineral is ensured in lease. Top soil produced is used for plantation.		

6. Progressive Mine Closure Plan(FY 2022-23)

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	Annual PMCP report submitted	Annual report of PMCP 26 (2) of MCDR-2017 submitted	-
6b	Area available for rehabilitation (Ha)	NIL	NIL	-
6c	Afforestation done (ha)	0.1238	0.1238	-
6d	No. of saplings planted during the year	150	250	-
6e	Cumulative no. of plants	500	500	-
6f	Any other specific method of rehabilitation	nil	nil	-
6g	Cost incurred on watch & care during the year	2.70 lakh	2.70 lakh	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	1500 Sq M	1500 Sq M	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	1408 Sq M	1408 Sq M	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	0.1238 Sq M	0.1238 Sq M	-

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6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Nil	Nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Nil	Nil	-
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	Nil	Nil	-
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Nil	Nil	-
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil	-
6p	Compliance of Environment monitoring (core zone & buffer zone)	Air, Water, Noise levels will monitored on periodically	Compliance of Environment monitoring done and in-house monitoring system are working continue	-
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Air, Water, Noise levels are monitored on periodically and are under prescribed limit.		

7. Mineral Conservation(FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral produced will be supplied to captive cement plant of the company at village Amilia.	Entire ROM has been fed to cement plant of M/s KJS Cement	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	mechanical	mechanical	-
7c	Different grade of mineral sort out at mine	The Limestone of the lease area is of cement grade.	Entire mineral used in cement making	-
7d	Any beneficiation process at mines	NO.	NO	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Entire ROM is dispatched to Captive Cement Plant of M/s KJS Cement.		

8. Environment(FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	The top soil used for plantation	The top soil used for plantation	-
8b	Concurrent use or storage of topsoil	used for plantation	No any stack of top soil it is already used for plantation	-
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	One separate dump of OB/Waste	One separate dump of OB/Waste	-
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its	Not proposed	NIL	

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	original use			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation by backfilling has been proposed	No reclamation done as there was no mined out area.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	The 0.1238 ha. area was proposed for plantation in the lease boundary	In the year 2022-23 , 250 saplings planted in the mining lease area	-
8g	Survival rate	80%	70%	-
8h	Water sprinkling on roads to control airborne dust	Regular water sprinkling will be maintained to control airborne dust.	Regular water sprinkling at roads, haul roads maintain the SPM concentration within limit result so that no dust become airborne.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	During the reporting year 250 saplings planted over 0.124 ha area.		

9. Compliance of Rule 45 (2022-23)

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	AR of 2022-23 submitted before 30.06.2023. Monthly returns are submitted within stipulated time.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of the Mining Engineer: Shri Rajkumar Geologist: Mr. Satpal Singh Raghuwanshi Manager: Shri Rajkumar	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining: 2.05 ha. Roads: 0.30 ha.. OB/waste dump: 0.353.	-
9d	Scrutiny of Annual return on afforestation	Afforestation as per MP and AR 250 saplings planted in the lease area.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	No any mineral reject generated during the year.	-
9f	Scrutiny of Annual return on ROM stock and/or grade ore	As per AR 2021-22, approved mining plan ROM was proposed 43668 t & actual production carried out 43523 t	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Sale value,- captive used Ex. Mine price –Rs. 316.64/tonne production costs- Rs. 316.64/tonne	-
9j	Scrutiny of Annual return on Fixed assets	Fixed assets as per AR: Value of Fixed Assets (in ₹) 16624760	-
9k	Scrutiny of Annual return on mining Machineries	As per AR 2022-23 BACK HOE 0.900 CUM 1 nos. DUMPER 18 TONNE 2 nos. WATER TANKER 5000 LITRE 1 nos	-