

**MCDR INSPECTION REPORT****General**

1	Name of Inspecting officer:	<b>Mr. Madhavrao Sabre</b>
2	Designation	Sr. Mining Geologist
3	Accompanying mine official with Designation	Shri Atindra Bhattacharyya, Shri AK verma
4	Date of Inspection	28.10.2023
5	Previous Inspection date	31.05.2023

**Part-I: General**

<b>S.N.</b>	<b>Particulars</b>	<b>Details</b>
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: 9.008 Ha.
3	Mine code	38MPR35277
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/5097/2011
5	Name of the Lease, 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 Grant of Mining Lease	24.07.2003
15	Date of Execution	02.08.2003
16	Date of opening of Mine	01.04.2004
17	Date of First Renewal, if applicable and its period & expiry	NA
18	Date of Second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Lease has been extended up to 01.08.2053 as per MMDRA Act, 2015
20	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

21	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
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Atindra Bhattacharyya Address: NH-7 Rewa Road, Rajnagar, Maihar-485771 Phone: 07672-239900 Email: <a href="mailto:a.bhattacharyya@kjscement.com">a.bhattacharyya@kjscement.com</a> Fax: 07672-239911 Date of Appointment: 01.12.2020
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Rajkumar Address: NH-7 Rewa Road, Rajnagar, Maihar-485771 Phone: 07672-239900 Email: <a href="mailto:rajtata2006@rediffmail.com">rajtata2006@rediffmail.com</a> Fax: 07672-239911 Date of Appointment: 10.11.2022
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mr. Raj Kumar appointed Mining Engineer & Satpal Singh Raghuvanshi as a Geologist
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Mining Plan Date of approval- 17.03.2003 Letter No. - MP/Satna/Limestone/MPLN-G-07/03-04 Period: 2004-2009
26	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: 25.01.2024, Letter No.- E 8591 MCDR-MPCOLST/35/2023-JBP-IBM_RO_JBP Period: 2024-25 to 2028-29
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	Captive

**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	02 BH	02 BH	
1b	Exploration over lease area for Geological axis 1 or 2.	Yes	Taken up	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	The lessee company itself	The lessee company itself under the supervision Geologist	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Entire lease area under G1	9.008 Ha. G1	

I/28650/2024

1e	Balance reserves as on 01.04.2023	1186578 T	1186820 T	
1f	General remarks of Inspecting officer on geology, exploration etc.	The occurrence of limestone in the lease area is stratigraphically controlled and is associated with Bhandar group of Vindhyan super group. Rocks of this formation comprise of shale and limestone. These rocks are structurally undisturbed having general trend in WNW-ESE with low dip of 1 degree to 2 degree North. 02 Boreholes were drilled during the reporting year.		

**Development**

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	2686990 N - 2687150 N and 489820 E - 489845 E	2687170 N - 2687000 N and 489820 E - 489904 E AND OUTSIDE THE Lease also	Violation pointed out.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate Bench for Topsoil/OB 3 m and The 2 <sup>nd</sup> & 3 <sup>rd</sup> benches will be in limestone 6 m	Separate Bench for Topsoil/OB 3 m and The 2 <sup>nd</sup> & 3 <sup>rd</sup> benches of limestone 6 m	
2c	Stripping ratio or ore to OB ratio	1.094	1.094	
2d	Quantity of topsoil generation in m <sup>3</sup>	3711 CuM	3339 CuM	
2e	Quantity of overburden generation in m <sup>3</sup>	11548	10393	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Pit developed outside the mining lease boundary also, for which violation pointed.		

**Exploitation**

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	01	-
3b	Quantity of ROM mineral production proposed (2015-16)	39994 Tonnes	39751.806 Tonnes	-
3c	Recovery of Salable/usable mineral from ROM production	39994 Tonnes	39751.806 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	Drilling & blasting	As per proposal	-

I/28650/2024

	mineral benches	will be done as per parameter spacing: 1.0m Burden: 0.8m Depth of hole: 1.5m Dia of hole: 32m Charge per hole: 400gm Powder factor: 8.0t			
3k	Provision of mining machineries in mineral benches	Compressor 02 nos. & Jack Hammer 02 nos. Loading Machine: L&T PC-200-Hyd. Excavator 01 nos. Transportation: Dumpers 03 nos. 10t. & 03 dumpers 16t. 1 dewatering pump, water tanker	Compressor 02 nos. & Jack Hammer 02 nos. Loading Machine: L&T PC-200-Hyd. Excavator 01 nos. Transportation: Dumpers 03 nos. 10t. & 03 dumpers 16t. 1 dewatering pump, 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	It was proposed to develop 2 benches in mineral but only 1 bench developed, violation pointed.	
3m	Total area covered under excavation /pits	2969	2820	-	
3n	Ore to OB ratio for the pit/mine during the year	1.094	1.094	-	
3o	Total area put in use under different heads at the end of year	Mining: 6.03 ha. Roads: 0.1 ha. Infrastructure: 0.01 ha. OB/waste dump: NIL. Top soil preservation: 0.5 ha.	Mining: 6.13 ha. Roads: 0.110 ha. OB/waste dump: 0.6 ha. Others 0.16	-	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19	41235	39552.71	-
		<b>2019-20</b>	<b>39972</b>	37958.19	
		<b>2020-21</b>	<b>39998</b>	39895.04	
		2021-22	39994	39993.56	
		2022-23	39994	39751.806	
3q	General remarks of inspecting officer on method of mining etc	Proposed production was achieved, method adopted for segregation of mineral is by mechanized means.			

**Solid Waste Management-Dumping**

I/28650/2024

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 3711 m <sup>3</sup> and OB/waste proposed 11548 m <sup>3</sup>	The top soil Generated in 2022-2023, 3339 m <sup>3</sup> and OB/waste proposed 10393 m <sup>3</sup>	-
4b	Location of topsoil, OB & mineral reject dumps	Location of OB/waste dumps 2686812 N and 489570 E	Location of OB/waste dumps 2686812 N and 489570 E and also outside the lease boundary	Violation pointed for dumping OB outside the lease boundary also.
4c	Number of Dumps within lease area and outside lease area	02	02	One partly outside M.L, For which violation pointed.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	OB/waste dumps 2686812 N and 489570 E	OB/waste dumps 2686812 N and 489570 E	The top soil quantity generated used for plantation
4e	Number of Active & Alive dumps	01	01	-
4f	Number of deed dumps	-	-	-
4g	Number of dumps established	01	01	-
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 78.7 M	-
4j	Number of settling ponds	Nil	01	
4k	Specific commends of inspecting officer on waste dump management	At some places dumping of OB done outside the lease for which violation issued.		

#### 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	No Fully Mined out area	No Fully Mined out area	-
5b	Area under backfilling of mined out area	0.11	NIL	No Fully Mined out pit
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	3711 m <sup>3</sup>	3339	Used for plantation
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	Top soil used for concurrent 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 submitted	-
6b	Area available for rehabilitation (Ha)	NIL	NIL	-
6c	Afforestation done (ha)	0.04	0.04	-
6d	No. of saplings planted during the year	100	100	-
6e	Cumulative no. of plants	880	880	-
6f	Any other specific method of rehabilitation	nil	nil	-
6g	Cost incurred on watch & care during the year	3.70 lakh	3.70 lakh	-
6h	Compliance on reclamation and rehabilitation by backfilling (i)Voids available for backfilling (L X B X D).	0.0717ha	NIL	Violation pointed for backfilling deviation.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	0.11	NIL	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	NIL	NIL	-
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	-

I/28650/2024

			system are working continue	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Violation pointed for deviation in backfilling. During the RY 100 saplings planted.		

**Mineral Conservation**

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 the 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	ROM mineral dispatch is done to captive cement plant.		

**Environment**

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	The top soil generated was stacked in the dump towards south.	The top soil used for plantation	-
8b	Concurrent use or storage of topsoil	No action will be taken for utilization and proper stacking of top soil to be left at end.	No any stack of top soil it is already used for plantation	-

I/28650/2024

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 dumps for restoring the land to its original use	Not proposed	NIL	-
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 0.5 ha. area was proposed for plantation in the lease boundary	In the year 2022-23 ,100 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	Regular monitoring of environment parameters taken up.		

**Compliance of Rule 45**

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Annual return 2022-23 submitted before 30.06.2023, MR submitted within prescribed time limit.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<b>Name of the Mining Engineer:</b> Shri Rajkumar <b>Geologist:</b> Mr. Satpal Singh Raghuwanshi <b>Manager:</b> Shri Atindra Bhattacharyya	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use as per Annual return 2022-23 Mining: 6.330 ha. Roads and Infra. : 0.110 ha.	30.06.2023



I/28650/2024

		OB/waste dump: 0.5 ha. Others 0.16	
9d	Scrutiny of Annual return on Afforestation	Afforestation as per MP and AR 100 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 2022-23, approved mining plan ROM was proposed 39994 t & actual production carried out 39751.806 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	-
9i	Scrutiny of Annual return on Fixed assets	Fixed assets as per AR: Value of Fixed Assets (in ₹) 29944692	-
9k	Scrutiny of Annual return on mining Machineries	As per AR 2022-23 BACK HOE 0.900 CUM 1 nos. DUMPER 16 TONNE 3 nos. WATER TANKER 5000 LITRE 1 nos.	-