

MCDR-MiFLOLST/62/2022-JBP-IBM_RO_JBP
INDIAN BUREAU OF MINES

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/27061/2024

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-204

Mine code : 38MPR35136

- (i) Name of the Inspecting: **G007**) **RAGHUBIR SHARAN GARG**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Vijay Singh Rathore, Agent, Rajendra Prasad Saini
Official with
Designation
- (iv) Date of Inspection : 20-FEB-24
- (v) Prev.inspection date : 06-JUN-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BARAHIYA**
- (b) **Registration NO.** : **IBM/5097/2011**
- (c) Category : A Fully Mechanized
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SATNA
Village : BARAHIYA
Taluka : MAIHAR
Post office : BHATIA
Pin Code : 485771
FAX No. : 07672239311
E-mail : mines@kjscement.com
Phone : 07672239900
- (f) Police Station :
- (g) First opening date : 26-OCT-91
- (h) Weekly day of rest : SUN
2. Address for correspondence : M/S KJS CEMENTS LTD.
VILLAGE -. AMALIA, P.O. MAIHAR,
DIST. SATNA (M.P.) 485771
3. (a) Lease Number : MPR0507
- (b) Lease area : 7.1
- (c) Period of lease : 40
- (d) Date of Expiry : 25-OCT-31
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : KJS CEMENTS LTD.
VILLAGE -. AMALIA, P.O.
MAIHAR SATNA MADHYA
PRADESH
Phone:07674- 232042, 232089
FAX :07674-232580

Owner : KJS CEMENTS LTD.
A-7, Maharani bag NEW
DELHISATNA MADHYA PRADESH
Phone: NA
FAX : NA

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	21-AUG-06
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	12-AUG-11
		Review of Mining Plan MCR,2016	22-JUL-2022

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was no backlog proposal.	Not applicable	-
1b	Exploration over lease area for geological axis 1 or 2	Six no. of boreholes proposed to convert entire mineralized area under G1 level against the year under review.	As per proposal six boreholes drilled.	OK
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	By KJS ltd. own self.	OK
1d	Balance area to be explored to bring Geological axis in 1 or 2	7.102hect	Reportedly entire lease area 7.102hect explored under G1 level.	OK
1e	Balance reserve as on 01/04/20	As on 01/04/2023 122-435852T 222-499390T	As on 01/04/2023 122-435576.79T 222-499390T	OK
1f	General remarks of inspecting officers on geology, exploration etc.			Entire lease area had come into G1 level after completion of proposed exploration work against the year under review i.e.2022-23. Based on additional exploration Geological Study Report has not yet submitted. Violation of rule 12(4B) pointed out vide letter dated 27/02/2024

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Development:

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In Pit no.1 with opening a new mineral bench in existing pit bottom and advancement of existing top soil and mineral bench further towards south-west.	Advancement of existing topsoil bench and mineral bench were noticed during inspection.	Deepening of pit was not noticed and accordingly observed deviations have been pointed out through violation of rule 11(1) vide letter dated. 27/02/2024
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	Observed. However, at certain part of the pit top soil bench and mineral bench was found merged.	It was advised to maintain separate benches in top soil and in mineral throughout the face length.
2c	Stripping ratio or ore to OB ratio	1:0.18	1:0.19	ok
2d	Quantity of topsoil generation in m3	5617cum	5620cum	ok
2e	Quantity of overburden generation in m3	Nil	Nil	Top soil is in the form of OB.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Significant development work of recent years not seen. Almost in entire lease area there are either pits (five no. of pits almost very old as mining operation in the mine commenced in last year after a gap of about two decades) and eightdumps.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One pit	One pit	-

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3b	Quantity of ROM mineral production proposed	29804T	29279.21T	-
3c	Recovery of sailable/usable mineral from ROM production	95%	Almost entire ROM ore is suitable for cement manufacturing.	-
3d	Quantity of mineral reject generation	Nil	Nil	-
3e	Grade of mineral rejects 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 / Mechanised method adopted for segregating from ROM	Mechanised	As per proposal	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	NA	-
3j	Provision of drilling and blasting in mineral benches	Proposed with 2mX2.5mX2.9m blots hole pattern.	Reported explosive consumption during the year under review is indicated as nil.	As reported explosive consumption is nil, this deviation has been pointed out through violation of rule11(1) vide letter dated 27/02/2024.
3k	Provision of mining machineries in mineral benches	Proposed with shovel dumper combination hydraulic shovel 1.2cum bucket capacity 1 no. Dumper 25tone capacity 3nos.	As per proposal	-

1/27061/2024	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Proposed	As per proposal.			-
3m	Total area covered under excavation/pits	4.26hect area	Within proposed area.			-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.18	1:0.19			-
3o	Total area put in use under different heads at the end of year	6.035hect area	Within proposed area.			-
3p	Production of ROM mineral during the last five year period as applicable	2018-19 2019-20 2020-21 2021-22 2022-23 29804T	Nil Nil Nil Nil	2018-19 2019-20 2020-21 2021-22 2022-23 29279.21T	Nil Nil Nil Nil	Production of limestone commenced in last year after a long gap.
3q	General remarks of inspecting officers on method of mining etc.				Shovel dumper combination with blasting pattern of 2mX2.5mX2.9m (BurdenXspecingXdepth of hole) is adopted for the exploitation of mineral from the mine.	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not Proposed	NA	Only top soil generation envisaged and as per proposal entire top soil is utilised either in plantation or in proposed backfilling.
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	NA	-

4c I/27061/2024	Number of dumps within lease area and outside of lease area	Not proposed.	NA	There are eight numbers of old dumps within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	NA	All the old dumps lie within ultimate pit limit.
4e	Number of active and alive dumps.	Nil	NA	-
4f	Number of dead dumps.	Nil	8 dumps	-
4g	Number of dumps established.	Not proposed	NA	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	NA	-
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	NA	-
4j	Number of settling ponds	Not proposed	NA	-
4k	Specific comments of inspecting officer on waste dump management			A very small quantity of OB (soil) generation envisaged and the same is proposed for backfilling of 7.5m wide degraded statutory barrier zone and accordingly same is either utilised for planation or for proposed backfilling.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling of degraded statutory barrier zone	Backfilling of degraded portion of 7.5m statutory barrier zone found started. found	-
5b	Area under backfilling of mined out area	2100sqm	About 2100sqm partially backfilled	Partial backfilling observed.

1/27061/2024	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	Asper proposal	-
5d	Total area fully reclaimed and rehabilitated	2100sqm	About 2100sqm partially backfilled.	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling of degraded 7.5m statutory barrier zone proposed. Backfilling of such area found started.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	PMCP report for the year 2022-23	PMCP report for the year 2022-23 not found submitted.	Violation of rule 26(2) pointed out vide letter dated 27/02/2024.
6b	Area available for rehabilitation (ha) .	Not proposed	NA	-
6c	afforestation done (ha).	0.1hect	0.1hect	-
6d	No. of saplings planted during the year	100	100	-
6e	Cumulative no .of plants	100	100	Mining operation in the mine started in year 2022-23 after a prolonged gap.
6f	Any other method of rehabilitation	Not proposed	NA	-
6g	Cost incurred on watch and care during the year	Rs. 30,000/-	Record not maintained.	-

6h I/27061/2024	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	NA	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	NA	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	NA	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	NA	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	NA	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	NA	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	NA	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	NA	-

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6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Records of environmental monitoring date checked during inspection and found ok.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mining operation in the mine commenced after a prolonged gap. Implementation on PMCP proposal found started.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	29804T	29279.21T	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	As per approved proposal.	-
7c	Different grade of mineral sorted out at mines.	Not proposed. Entire ROM ore proposed for supply in to cement Plant for cement manufacturing.	As per proposal.	-
7d	Any beneficiation process at mines	Not proposed.	NA	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no issue related with conservation of mineral. Entire mineral produced from the mine is supplied to KJS Cement Plant.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
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8a I/27061/2024	Separate removal and utilization of topsoil (Rule 32)	Proposed	As per proposal.	-
8b	Concurrent use or storage of topsoil	Proposed	As per approved proposal.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Not applicable as only top soil generated during mining operation for the extraction of limestone.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Entire overburden found as a top soil is utilized for backfilling of degraded 7.5m statutory barrier zone. Part of the soil is also utilised for planation.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling and reclamation and rehabilitation of 7.5m statutory barrier zone proposed	Backfilling work found started. Rehabilitation after backfilling not yet commenced for want of complete backfilling.	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100saplings	100saplings planted during the year.	
8g	Survival rate	80%	80%	-
8h	Water sprinkling on roads to control airborne dust	Proposed	Evidenced during site inspection.	-

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General remarks
of inspecting
officer on
aesthetic beauty
in and around
mines area

There are number
of mines in around
the lease area.
From the region
exploitation of
mineral are being
carried out over a
period of last
50years. So, the
entire region is
affected with
mining. As a
result, number of
pits, dumps are
there in the
region. Plantation
over existing
dumps, bunds may
be seen. Mining
operation in the
mines commenced in
last year after a
prolonged gap. so
general beauty of
the area is not
good. Advise given
for more planation
and post care.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submission of Monthly Annual Return 2022- 23	Monthly Return for The month of Dec,2024 and AR for 2022-23 found submitted.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Engineer-Shri Raj Kumar Geologist Shr Satpal Singh Raghuwanshi	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	(i) Already exploited & aban. by O/C mining 0 (ii) Covered under current (O/C) Workings 4.26 (iii) Reclaimed/Rehabilitated 0 (iv) Used for waste disposal 1.235 (v) Occupied by plant, buildings, and roads 0.25	ok
9d	Scrutiny of Annual return on afforestation	Given	100 saplings	OK

I/27061/2024	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Reject quantity -Nil	OK
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM stock-Nil	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Sale Value Rs-Not applicable as mineral produced is supplied to cement plant. Ex mine Price Rs. 318/64 Cost of production Rs. 316/64	-
9h	Scrutiny of Annual return on fixed assets	Given	Rs.941951/-	-
9k	Scrutiny of Annual return on mining machineries	Given	back Hoe 0.9cum bucket capacity 1 No. Dumper 18tonner3No. Water Tanker5000ltr1No	-

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MCDR17	Rule 11(1)	27-FEB-24
MCDR17	Rule 12(4)	27-FEB-24
MCDR17	Rule 26(2)	27-FEB-24
MCDR17	Rule 31(4)	27-FEB-24
MCDR17	Rule 33	27-FEB-24
MCDR17	Rule 34(1)	27-FEB-24

Date :06/03/2024

(RAGHUBIR SHARAN GARG)
Indian Bureau of Mines