

MINERALS DEVELOPMENT AND REGULATION DIVISION

1/8208/2023

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-118

Mine code : 38MPR35018

- (i) Name of the Inspecting : G005) SANJAY M. GIRHE
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 07-NOV-22
- (v) Prev.inspection date : 24-JUN-19

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BHATIYA (4.290 HA)
- (b) Registration NO. : IBM/5097/2011
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SATNA
Village : BHATIYA
Taluka : MAIHAR
Post office : BHATIYA VIA MAIHAR
Pin Code : 485771
FAX No. : 07672-239311
E-mail : mines@kjscement.com
Phone : 07672-239311
- (f) Police Station : Nadan
- (g) First opening date : 28-JUN-83
- (h) Weekly day of rest : SUN
2. Address for : M/S KJS CEMENTS LTD.
correspondance : VILLAGE -. AMALIA, P.O. MAIHAR,
DIST. SATNA (M.P.) 485771
3. (a) Lease Number : MPR0444
- (b) Lease area : 1.88
- (c) Period of lease : 20
- (d) Date of Expiry : 27-JUN-03
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, Maharaniabag NEW DELHI
SATNA MADHYA PRADESH
Phone: NA
FAX : NA

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	16-AUG-99
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	27-APR-04
	:	Mining Scheme rule 12 MCDR1988	28-AUG-09
	:	Mining Scheme rule 12 MCDR1988	13-JAN-15
	:	MP review under 17(1) MCR 2016	05-AUG-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed during the year 2021-22	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed during the year 2021-22	Nil	No detailed exploration carried out in ML area by the lessee
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration was proposed during the year 2021-22	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration was proposed during the year 2021-22	Area under G1 level-3.29 Area under G2 level-1.00	Most of the G1 level area is explored by the working pit only. Subsequent exploration proposals for detailed exploration given in ROMP
1e	Balance reserve as on 01/04/20	Reserves in Tonnes Proved(111) - 617710 MT Resources in tonnes Feasibility(211): 220788 MT Resources & reserves position as per approved ROMP dtd05.08.2019	Reserves in Tonnes Proved(111) -581061 MT Resources in tonnes Feasibility(211): 220788 MT Resources & reserves position as per Annual Return for 2021-22	No addition reserves have been assessed or added

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1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	The occurrence of limestone in the lease area is stratigraphically controlled & is associated with Semari group of Vindhyan super group of rocks. The limestone mineralisation very well seen in pit up to 324mRL
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to work at North east in Pit-1	Working carried out as per the proposals	No deviation occured in working during the year
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No soil benches for current year as mining was proposed in Pit-1, Mineral limestone benches proposed of 5.5 m	No soil benches for current year as mining was proposed in Pit-1, Mineral limestone benches proposed of 5.5 m. Benches as proposed maintained accordingly	Nil
2c	Stripping ratio or ore to OB ratio	Proposed as 1:0.08 Tonne/CuM	Acheived as 1:0.04 Tonne/CuM	During the year 1508 overburden generated
2d	Quantity of topsoil generation in m3	No Proposals	Nil	No top soil generated during the year 2021-22
2e	Quantity of overburden generation in m3	Proposed 2234 CuM	Acheived as 1508 CuM	Ob generation slightly on lower side
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	There is single working pit at centralised part of ML area and its dimensions are 230m x 45-110m x 8-13m

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Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	Existing Pit No. 1	Existing Pit No. 1	Working carried out in proposed Pit-1
3b	Quantity of ROM mineral production proposed	50260 MT	36649 MT	Achieved limestone production slightly on lower side.
3c	Recovery of saleable/usable mineral from ROM production	Proposed as 100 %	Achieved about 100%	Entire ROM being dispatched in captive cement plant
3d	Quantity of mineral reject generation	No Mineral rejects generation proposed	Nil	No Mineral rejects found.
3e	Grade of mineral rejects generation and threshold value declared.	No Proposals	Nil	No Mineral rejects found.
3f	Quantity of sub grade mineral generation.	No Proposals	Nil	Nil
3g	Grade of sub grade mineral generation	No Proposals	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals	Nil	Nil

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3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed as per following parameter spacing: 3.0m, Burden: 2.5m, Depth of hole: 5 m, Dia of hole: 110m, Charge per hole: 3 kg., Powder factor: 6.0 MT/kg.	Drilling & blasting carried out as per the proposals	Drilling & blasting carried out as per the proposals
3k	Provision of mining machineries in mineral benches	Back Hoe Excavator 01 Nos. Dumpers 02 Nos. Drill DTH 01 Nos. Water Tanker with Sprinkler	Back Hoe Excavator 01 Nos. Dumpers 02 Nos. Drill DTH 01 Nos. Water Tanker with Sprinkler	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No OB benches for current year as mining was proposed in PIT, Mineral bench proposed 5.5m for limestone	No OB benches for current year as mining was proposed in PIT, Mineral bench proposed 5.5m for limestone	
3m	Total area covered under excavation/pits	Proposed as 2.010 Ha as per ROMP approved 05.08.2019	2.05 Ha as per annual return 2021-22	
3n	Ore to OB ratio for the pit/mine during the year.	Proposed as 1:0.08 Tonne/CuM	Acheived as 1:0.04 Tonne/CuM	During the year 1508 overburden generated

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3o	Total area put in use under different heads at the end of year	Mining: 2.050 ha. Roads: 0.220 H. Waste disposal: 0.233 H. Other Purpose ; 0.010 H OB/waste dump: ha. Top soil preservation: 0.46 ha.	Mining: 2.050 ha. Roads: 0.220 H. Waste disposal: 0.233 H. Other Purpose ; 0.010 H OB/waste dump: ha. Top soil preservation: 0.46 ha.	Area details as per annual and approved documents
3p	Production of ROM mineral during the last five year period as applicable	2017-18-: 29992 MT 2018-19-: Lapse period 2019-20-: 45986 2020-21-: 41560 2021-22-: 50260	2017-18-: Nil 2018-19-: Lapse period 2019-20-: Nil 2020-21-: Nil 2021-22-: 36649 MT	Limestone production marked as nil in aforesaid year due to non-availability of EC and ROMP
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	There is single working pit at centralised part of ML area & its dimensions are Pit No-1 (230m x 45-110m x 8.0-13.0mRL),

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	The soil and OB: the OB and waste not generated was proposed to dispose in active pit.	Working done as per the proposals	Dumping was proposed over the mineral exhausted area in pit

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4b	Location of topsoil, OB and mineral reject dumps	Overburden dumps are location in central and southern part of ML area	Overburden dumps are location in central and southern part of ML area	OB dumps locations marked on the updated surface plan-Plate-IV
4c	Number of dumps within lease area and outside of lease area	Total 06 dumps in ML area (Top soil dumps-04 nos. & 02 waste dumps)	Total 06 dumps in ML area (Top soil dumps-04 nos. & 02 waste dumps)	OB dumps locations marked on the updated surface plan-Plate-IV
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Total 06 dumps in ML area outside UPL	Total 06 dumps in ML area outside UPL	Nil
4e	Number of active and alive dumps.	Total 06 active dumps in ML area outside UPL	Total 06 active dumps in ML area outside UPL	Active OB dumps not stabilised so far
4f	Number of dead dumps.	No dead dumps in ML area	No dead dumps in ML area	All are acitve dumps in ML area
4g	Number of dumps established.	No Proposals	Nil	No dumps have stabilized so far
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed to be prepared all around the dumps	Garland drain are prepared all around the dumps	Nil
4i	Length of Retaining wall or garland drain all along dumps	Proposed during the year 2021-22	Prepared of diamensions - 50 M X 1M X 1 M	Marked on surface plan
4j	Number of settling ponds	No Proposals	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	NA	Mining lease area is having OB/waste. Total 06 dumps of previously occurred waste are lying in already mineral exhausted pits where limestone is exhausted.

Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Limestone exhausted area about 0.335 Ha.	Limestone exhausted area about 0.335 Ha.	
5b	Area under backfilling of mined out area	No Proposals	About 0.3 Ha backfilled in ML area	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposals	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposals	Nil	No area has been fully reclaimed and rehabilitated so far
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Presently none of the entire working pit area is limestone exhausted, hence scope of backfilling presently doesn't exist.

Progressive Mine Closure Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted before 1st July of every year	Yes, submitted within time limit as per the provisions of Rule 26 of MCDR, 2018	
6b	Area available for rehabilitation (ha) .	No Proposals	Around 1.971Ha is available in ML area	
6c	afforestation done (ha) .	Proposed over 0.097 Ha	Achieved over 0.075 Ha	

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6d	No. of saplings planted during the year	Proposed 125 nos of saplings to be planted in 2021-22	Around 150 nos of saplings planted during the year 2021-22	
6e	Cumulative no .of plants	NA	NA	No details provided in approved documents
6f	Any other method of rehabilitation	No Proposals	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposals	Nil	No details available
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposals	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposals	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposals	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil	Nil

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6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposals	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposals	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed over 0.097 Ha	Acheived over 0.075 Ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposals	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, Water, Noise levels monitored proposed on periodically	Compliance of Environment monitoring done and in-house monitoring system are working continue	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Scope of backfilling/reclamation & rehabilitation exist in limited manner as very few working pits area is matured for backfilling. Periodic monitoring is being carried out by outsourced consultant

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Total 50260 MT ROM proposed for production and dispatch during the year 2021-22	Total 36649 MT limestone production carried out in 2021-22 for dispatches	36649.000 MT limestone dispatched during the year 2021-22
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Nil
7c	Different grade of mineral sorted out at mines.	The Limestone of the lease area is of cement grade.	The Limestone of the lease area is of cement grade.	The Limestone of the lease area is of cement grade.
7d	Any beneficiation process at mines .	No Proposals	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	Limestone of lease area being conserved in very well manner and entire ROM proposed to be utiliosed for Plant feed. Grade wise stacking is also done on earmarked locations.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The soil in the lease area proposed to be used for topping of the backfilled area and for plantation on soil dump.	No top soil generated during the year 2021-22	

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8b	Concurrent use or storage of topsoil	Concurrent use of top soil proposed for bund preparation and plantation purpose	Nil	No top soil generated during the year 2021-22
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One separate dump of OB/Waste proposed	Dumping carried out as per the proposals	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The 0.097 ha. area proposed for plantation on backfilled area	0.075 ha. area used for plantation	
8g	Survival rate	Proposed as 85%	Acheived as 80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	Water tanker is provided for the purpose

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8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	NA	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 300-400 sapling/year in next ROMP.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. submitted upto- Oct-2022 A.R. submitted upto-2021-22	Annual Return for the year 2021-22 submitted within time limit	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Shri Raj Kumar appointed as Mining Eng. and Shri Satpal Singh Raghuwanshi as Geologist	Both the mining eng. and geologist were present during mine inspection
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Mining: 2.050 ha. Roads: 0.220 H. Waste disposal: 0.233 H. Other Purpose ; 0.010 H OB/waste dump: ha. Top soil preservation: 0.46 ha.	
9d	Scrutiny of Annual return on afforestation	Given	250 saplings planted outside the mining lease area	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	Nil	No mineral rejects generated during the year 2021-22

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Cement Grade: O/S-Nil Despatch-36649.000 C/S-Nil	Only cement grade limestone being produced from the mine
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price: Cement Grade -Rs 209.80 /MT	
9h	Scrutiny of Annual return on fixed assets	Not Given	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Given	Back Hoe Excavator 01 Nos. Dumpers 02 Nos. Drill DTH 01 Nos. Water Tanker with Sprinkler	.

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :**(SANJAY M. GIRHE)**

Indian Bureau of Mines