

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-207

Mine code : 38MPR35098

- (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 : 15-DEC-22
- (v) Prev.inspection date : 23-JAN-19

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BHATIA
- (b) Registration NO. : IBM/5097/2011
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SATNA
Village : BHATIA
Taluka : MAIHAR
Post office : BHATIA
Pin Code : 485771
FAX No. : 07674-232580
E-mail : snsahr@sancharnet.in
Phone : 07674- 232042, 232089
- (f) Police Station : Nadan
- (g) First opening date : 01-MAY-92
- (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 : MPR0615
- (b) Lease area : 10.43
- (c) Period of lease : 30
- (d) Date of Expiry : 28-MAY-22
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	:	Renewal under rule 24 MCR1960	22-DEC-04
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	21-JUN-11
		Mining Scheme rule 12 MCDR1988	08-MAY-12
		Mining Scheme rule 12 MCDR1988	27-AUG-13
		MP review under 17(1) MCR 2016	25-APR-19

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed in 2021-22 but exploration was proposed in 2019-20 & 21	Nil	Violation under Rule 11(1) of MCDR,2017 pointed out and issued for not carrying out proposed exploration
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed in 2021-22	Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration was proposed in 2021-22	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration was proposed in 2021-22	G1- 5.225 Ha, G2-2.624Ha & Non explored area 2.58 Ha	Entire mining lease area is explored in G1 & G2 level by way of working pits & its influence considered.
1e	Balance reserve as on 01/04/20	Reserves in Tonnes Proved(111) - 336739MT Probable (122)- 407984MT Resources in Tonnes Feasibility(211): 485095 MT Pre-Feasibility(21):252600 MT Resources & Reserves position as per ROMP approved on 25.04.2019	Reserves in Tonnes Proved(111) -113492 MT Probable (122)-407984MT Resources in Tonnes Feasibility(211): 485095 MT Pre-Feasibility(221):252600 MT Resources & Reserves position as per Annual Return for 2021-22	No additional reserves have been assessed.

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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 and associated with Bhandar group of Vindhyan super group. General strike of formation is WNW-ESE with low dip- 1-2 deg towards north.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The working was proposed at quarry No 2 towards north.	Working was not carried out as per the proposals and there was lateral as well as vertical deviations	For above said deviation violation under Rule 11(1) of MCDR,2017 pnted out & issued to the lessee
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	1st bench Topsoil/OB 2.5 m Mineral benches will be limestone 4-4.5 m	Benches configuration maintained as proposed	Benches found in order
2c	Stripping ratio or ore to OB ratio	Proposed as 1:0.25 Tonne/CuM	Acheived as 1:0.13 Tonne/CuM	During the year 5336 CuM overburden generated
2d	Quantity of topsoil generation in m3	No Proposals	Nil	Nil
2e	Quantity of overburden generation in m3	Proposed as 7700 CuM	Acheived as 5336 CuM	During the year 2021-22, slightly less OB generated

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	There are three working pits and its dimensions are reported in ROMP are Pit No-1 (25500 SqM x 26m) East, Pit No-1 (23000 SqM x3-16m) West and Pit No-3 (7700 SqM x 8-10m) West
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Existing Pit No. 1	Working was carried out in proposed pit-1	There are three pits in the mining lease area
3b	Quantity of ROM mineral production proposed	Proposed as 77000MT	Acheived as 76947 MT	Production almost acheived as proposed. No excess production during the year
3c	Recovery of sailable/usable mineral from ROM production	Proposed as 80 %	Acheived as 80 %	Rest 20% as interburden
3d	Quantity of mineral reject generation	No Proposals	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No Proposals	Nil	Nil
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	Mechanised	Mechanised	Crishing plat of 1200 TPH installed outside ML in Girgita/Amilia village

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed as per following parameter spacing: 4-5m, Burden: 3-4m, Depth of hole: 6-7 m, Dia of hole: 115m, Charge per hole: 25-35 kg., Powder factor: 7-8 MT/kg.	Drilling & blasting proposed as per following parameter spacing: 4-5m, Burden: 3-4m, Depth of hole: 6-7 m, Dia of hole: 115m, Charge per hole: 25-35 kg., Powder factor: 7-8 MT/kg.	
3k	Provision of mining machineries in mineral benches	Back Hoe Excavator 02 Nos. Dumpers 04 Nos. Drill DTH 01 Nos. Water Tanker with Sprinkler	Back Hoe Excavator 02 Nos. Dumpers 04 Nos. Drill DTH 01 Nos. Water Tanker with Sprinkler	
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 2.5m for OB & 4-4.5 m for mineral	Benches heights maintained as proposed	Nil
3m	Total area covered under excavation/pits	Proposed as 7.58 Ha as ROMP approved dtd 25.04.2019	6.70 Ha as per annual return 2021-22	
3n	Ore to OB ratio for the pit/mine during the year.	Proposed as 1:0.25 Tonne/CuM	Acheived as 1:0.13 Tonne/CuM	During the year 5336 CuM overburden generated

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3o	Total area put in use under different heads at the end of year	Mining: 7.58 ha. Roads: 0.20 ha. Infrastructure : 0.01 Top soil preservation: 0.25 ha. As per approved ROMP dtd 25.04.2019	Mining: 6.70 ha. Roads: 0.20 ha. Infrastructure: 0.01 Top soil preservation: 0.25 ha. As per annual return 2021-22	
3p	Production of ROM mineral during the last five year period as applicable	2018-19-: Not Proposed 2019-20-: 77000 2020-21-: 72650 2021-22-: 77000 2022-23 97800	2018-19-: Nil 2019-20-: 76954 MT 2020-21-: 69345 MT 2021-22-: 76947 MT	Prdocution figures as per annual returns 2018-19 to 2021-22
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	Opencast mechanised Mechanised working proposed by using Excavator /JCB & dumper combination with deep holes drilling & blasting.

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- NIL OB: the OB and waste generated proposed to be utilized for backfilling. Mineral reject: No proposals	OB/waste generated dumped in south-Eastern part of the mine.	For this deviation violation under Rule 11(1) of MCDR,2017 pointed out & issued to the lessee

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4b	Location of topsoil, OB and mineral reject dumps	Thre are only 02 soil dumps in ML area at central & northern part	Thre are only 02 soil dumps in ML area at central & northern part	No OB dumps in lease area
4c	Number of dumps within lease area and outside of lease area	Thre are only 02 soil dumps in ML area at central & northern part	Thre are only 02 soil dumps in ML area at central & northern part	No dumps outside ML area noticed
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Thre are only 02 soil dumps in ML area at central & northern part outside UPL	Thre are only 02 soil dumps in ML area at central & northern part outside UPL	Nil
4e	Number of active and alive dumps.	Thre are only 02 soil dumps in ML area at central & northern part outside UPL	Thre are only 02 soil dumps in ML area at central & northern part outside UPL	Only two active dumps
4f	Number of dead dumps.	No dead dumps in ML area	No dead dumps in ML area	Nil
4g	Number of dumps established.	No Proposals	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposals	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No Proposals	Nil	Nil
4j	Number of settling ponds	No Proposals	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	NA	Overburden generated during the year proposed for backfilling in working pit where limestone mineralisation 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.	Proposed over 2.20 Ha. area	Acheived 2.450 Hect	
5b	Area under backfilling of mined out area	About 2.450 Ha	About 2.450 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposals	Nil	No top soil generation proposed
5d	Total area fully reclaimed and rehabilitated	No Proposals	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Overburden generated from mine proposed for backfilling over mined out area and backfilling carried out.

Progressive Mine Clousre 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,2017	Report was produced during mine inspection
6b	Area available for rehabilitation (ha) .	Proposed as 1.30 Ha	Acheived as 0.605 Ha	
6c	afforestation done (ha) .	Proposed over 0.80 Ha	Achieved over 0.605 Ha	

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6d	No. of saplings planted during the year	Proposed 400 saplings in 2021-22 for plantation	Acheived about 400 Nos during the year 2021-22	
6e	Cumulative no .of plants	Cumulative plantation about 1210 Nos	Cumulative plantation about 1210 Nos	
6f	Any other method of rehabilitation	No Proposals	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposals	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Proposed over 35000m2	Acheived over 35000m2 as proposed	
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
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposals	Nil	Nil

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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)	No Proposals	Nil	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	Analysis reports were provided
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Scope of backfilling/reclamation & rehabilitation exists at some locations in working pits area where limestone mineralisation exhausted. 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	77000MT proposed as total ROM production for despatch. Mechansied crushing proposed	76947 MT limestone production carried out in 2021-22 for dispatches.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	1200 TPH capacity crusher installed at Girgita/Amalia
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.	No grade wise sorting is required
7d	Any beneficiation process at mines .	No Proposals	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	There is no mineral rejects/subgrade generation from ROM. About 80% recovered limestone being used for cement manufacturing & rest 20% as interburden waste.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The soil in the lease area will be used for topping of the backfilled area and plantation will be done on soil dump.	The top soil used for plantation	

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8b	Concurrent use or storage of topsoil	The soil in the lease area will be used for topping of the backfilled area and plantation will be done on soil dump.	Nil	No top soil generated during the year
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Concurrent use of overburden waste material for backfilling proposed	Working done as per the proposals	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Concurrent use of overburden waste material for backfilling proposed	Working done as per the proposals	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Concurrent use of overburden waste material for backfilling proposed	Working done as per the proposals	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The 0.55 ha. area proposed for plantation on backfilled area	0.605 ha. area used for plantation	400 saplings planted 2021-22.
8g	Survival rate	Proposed as 70%	Acheived as 60%	
8h	Water sprinkling on roads to control airborne dust	Regular water sprinkling proposed to maintain control airborne dust.	Regular water sprinkling at roads, haul roads maintain the SPM concentration within limit result no dust become airborne.	

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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 400-500 sapling/year.
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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. not submitted upto- Dec-2022 A.R. submitted upto- 2021-22	Annual Return for the year 2021-22 submitted within time limit.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Raj Kumar, as Mining Eng. and Shri Narayan Shukla, as Geologist appointed	Both Mining Eng. and Geologist were present during the mines inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Mining: 6.70 ha. Reclaimed & Rehabilitated -2.40Ha Waste Dumps-0.54Ha Roads: 0.20 ha. Infrastructure: 0.01 Top soil preservation: 0.25 ha.	Details as per Annual Return 2021-22
9d	Scrutiny of Annual return on afforestation	Given	400 Saplings planted within mining lease area	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	Nil	No mineral rejects generation were proposed

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Cement Grade: O/S-Nil Despatch-76947 MT C/S-Nil	Only cement grade limestone production & dispatches reported during the year
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	Given	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Given	Back Hoe Excavator 02 Nos. Dumpers 04 Nos. Drill DTH 01 Nos. Water Tanker with Sprinkler	Nil .

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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
MCDR17	Rule 11(1)	14-FEB-23			
MCDR17	Rule 31(1)	14-FEB-23			
MCDR17	Rule 54(a)	14-FEB-23			

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

Indian Bureau of Mines