

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/SAT/LST-205

Mine code : 38MPR35142

- (i) Name of the Inspecting : **KQ06**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sh K P Nigam (Agent), Sh Anil Kumar (Mining Engineer)
Official with
Designation
- (iv) Date of Inspection : 16-NOV-19
- (v) Prev.inspection date : 12-SEP-17

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. : 07672239911
E-mail : mines@kjscement.com
Phone : 07672239900
- (f) Police Station : Maihar
- (g) First opening date : 01-AUG-00
- (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 : MPR0506
- (b) Lease area : 45.89
- (c) Period of lease : 30
- (d) Date of Expiry : 25-OCT-31
4. Mineral worked : LIMESTONE Main

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	:	Mining Scheme rule 12 MCDR1988	21-AUG-06
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	06-JUN-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4 BH	2 BH	violation u/r 11(1) pointedout.
1b	Exploration over lease area for geological axis 1 or 2	G2: 45.888 Ha	G2: 45.888 Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	R.K.Drilling, Hosangabad	1.98 Lakh as per provided records.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire area covered under G2	Entire area covered under G2	
1e	Balance reserve as on 01/04/20	Proved Reserve (111) NIL Probable Reserve (122) 14468736 MT Feasibility Mineral Resource (221) NIL Pre-Feasibility Mineral Resource (222) 1924894 MT Indicated Mineral Resource (332) 16393630 MT	Proved Reserve (111) NIL Probable Reserve (122) 13146764 MT Feasibility Mineral Resource (221) NIL Pre-Feasibility Mineral Resource (222) 1924894 MT Indicated Mineral Resource (332) 16393630 MT	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration drill is required to be done for G-1

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	The working will be between Co-ordinates N2686100m to 2686700m and E489700 to 490000m.	Actual worked done between Co-ordinates N268669m to 268636m and E489836 to 490000m.	The mine development was deviated from the proposal and not as per the approved proposals of approved document. Violation pointed out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	1st bench Topsoil/OB 03-04 m Mineral 03 benches 2nd ,3rd & 4th bench will be limestone 4-6 m	benches were found unsystematically developed and loose material was scattered in the small heaps at pit bottom.	violation pointed out.
2c	Stripping ratio or ore to OB ratio	1:0.04	1:0.03	
2d	Quantity of topsoil generation in m3	970 m3	NIL	violation pointed out
2e	Quantity of overburden generation in m3	8730 m3	15500 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine development was deviated from the proposal and not as per the approved proposals of approved document. Violation pointed out for the same.

Exploitation:

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

3b	Quantity of ROM mineral production proposed	500690 MT	499639.36 MT
3c	Recovery of sailable/usable mineral from ROM production	80%	80%
3d	Quantity of mineral reject generation	No proposal	No Mineral rejects as per records.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	NA
3f	Quantity of sub grade mineral generation.	No Mineral sub grades	No Mineral sub grades as per records.
3g	Grade of sub grade mineral generation	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting will be done as per parameter spacing: 4.0m Burden: 3m Depth of hole: 7m Dia of hole: 110m Charge per hole: 25kg. Powder factor: 6.0 MT/kg.	spacing: 4.0m Burden: 3m Depth of hole: 7m Dia of hole: 110m Charge per hole: 25kg. Powder factor: 6.0 MT/kg.

3k	Provision of mining machineries in mineral benches	PC-300 Hydraulic Excavator 02 Nos. Dumpers 08 Nos. Drill DTH 01 Nos. Water Tanker with Sprinkler	PC-300 Hydraulic Excavator 02 Nos. Drill with Sprinkler Dumpers 08 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 3-4m for OB & 4-6 m for mineral	not maintained	violation for the same is pointed out.
3m	Total area covered under excavation/pits	Pit 12.67 ha. proposed for the plan period	Actual pit cover under excavation 10.5ha.	The mine development was deviated from the proposal and not as per the approved proposals of approved document. Violation for the same is pointed out.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.04	1:0.03	
3o	Total area put in use under different heads at the end of year	Mining: 12.67 ha. Roads: 0.1 ha. Infrastructure : NIL OB/waste dump: 7.42 ha. Top soil preservation: 0.46 ha.	Mining: 10.5 ha. Roads: 0.1 ha. Infrastructure: NIL OB/waste dump: 7.42 ha. Top soil preservation: 0.46 ha.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 = 42450 2015-16= 42450 2016-17= 500170 2017-18= 500280 2018-19= 500690	2014-15 = NIL 2015-16= NIL 2016-17=392166.09 2017-18= 422092.35 2018-19= 499639.36	

3q General remarks
of inspecting
officers on
method of mining
etc.

The mine
development was
deviated from the
proposal and not
as per the
approved proposals
of approved
document.

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 generated will be dumped at soil dump in north-East boundary part of the mine OB: the OB and waste generated will be dumped at dump No-1 in south-western part of the mine Mineral reject: not generated	The top soil not available for dumping OB: the OB and waste dumped at dump No-1 in south-western part of the mine	

4b	Location of topsoil, OB and mineral reject dumps	The soil generated will be dumped at soil dump in north-East boundary part of the mine from grid N2686400 to N2686500 and E490100 to E490200 OB: the OB and waste generated will be dumped at dump No-1 in south-western part of the mine from grid N2686200 to N2686600 and E489600 to E489800	The top soil already used so dump is not required. OB: the OB and waste dumped at dump No-1 in south-western part of the mine from grid N2686700 to N2686450 and E489800 to E489650	Violation pointed out for the same.
4c	Number of dumps within lease area and outside of lease area	One dump proposed within lease area	One dump within lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	the OB and waste generated will be dumped at dump No-1 in south-western part of the mine	the OB and waste dumped at dump No-1 in south-western part of the mine	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Not proposed	NA	
4g	Number of dumps established.	One	One	

4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain will be prepared all around the dumps and these drains will be diverted to nearest nallah.	Not maintained	violation pointed out.
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	NIL	
4j	Number of settling ponds	one	one	
4k	Specific comments of inspecting officer on waste dump management			

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Yes	It was proposed to backfill 11.33 ha area in the year 2018-19. But, during inspection it has been observed that only 1.33 Ha area has been backfilled.	Violation pointed out for the same.
5b	Area under backfilling of mined out area	11.3259 ha.	1.3259 ha.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Stacking of top soil	NIL	
5d	Total area fully reclaimed and rehabilitated	18.10 ha.	1.3259 ha.	Violation for the same is pointed out.

5e General remarks
of inspecting
officers on
backfilling and
reclamation etc.

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).	Annual PMCP report it will be submitted before 1st day of July every year	Not submitted	
6b	Area available for rehabilitation (ha) .			the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.
6c	afforestation done (ha).	NA	NA	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.
6d	No. of saplings planted during the year	NA	NA	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.
6e	Cumulative no .of plants	NA	NA	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.
6f	Any other method of rehabilitation			the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.

6g	Cost incurred on watch and care during the year	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.	VIOLATION POINTED OUT
6p	Compliance of environmental monitoring (core zone and buffer zone)	the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19.	VIOLATION POINTED OUT
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19. Violation under rule 26 has been pointed out for the same.

Mineral Conservation:

Sl.No.	Item	Propasals	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	captive use as per records	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	
7c	Different grade of mineral sorted out at mines.	The Limestone of the lease area is of cement grade.	cement grade	

7d	Any beneficiation process at mines .	Not proposed	No beneficiation process
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

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	
8b	Concurrent use or storage of topsoil	The top soil used for plantation after backfilling	As per proposal	
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)	Not proposed	1.3259 Ha. reclaimed
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The 0.05 ha. area proposed for plantation on backfilled area	Plantation done
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	Yes	Yes
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR of Apr-18 to Mar-19 to be submitted and AR of 2018-19 to be submitted.	MR of Apr-18 to Mar-19 have been submitted and AR of 2018-19 has been submitted on 24.06.2019	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of the Mining Engineer: Mr. Anil Kumar Geologist: Mr. Narayan Prasad Shukla Manager: Mr. Anil Kumar	whole time Mining Engineer and Geologist have not been appointed for this lease area as per provisions of rule.	Violation pointed out.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern as per AR- Pit area: 10.5 ha. Use for waste disposal: 7.42 ha. Infrastructure /road: NIL. Reclaimed area: 1.3259 ha.	As per AR
9d	Scrutiny of Annual return on afforestation	Afforestation as per MP and AR 50 saplings planted	50 saplings planted
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not proposed	No any mineral reject generated during the year as per provided records.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	As per approved mining plan ROM was proposed 500690 t & actual production carried out 499639.36 t	ROM was proposed 500690 t & actual production carried out 499639.36 t
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	sale value,- captive used Ex. Mine price -Rs. 209.80/tone production costs- Rs. 209.80/tone	sale value,- captive used Ex. Mine price -Rs. 209.80/tone production costs- Rs. 209.80/tone
9h	Scrutiny of Annual return on fixed assets	Fixed assets Value of Fixed Assets (in ?) 30613495	Fixed assets as per AR

9k	Scrutiny of Annual return on mining machineries	As per AR 2018-19 BACK HOE 1.200 CUM 02 Nos. DUMPER 16.00 tonne 08 Nos. ROCK DRILL (NONELEC.) 110 mm 01 Nos. WATER TANKER 5000 Leter 01 Nos.	Found in order.
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	17-DEC-19			
MCDR17	Rule 26(2)	17-DEC-19			
MCDR17	Rule 55(1) (3)	17-DEC-19			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines