

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-302

Mine code : 38MPR35277

- (i) Name of the Inspecting : **KQ06**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : K P Nigam (Agent) ,Anil Kumar (Mining Engineer),Naray
Official with
Designation
- (iv) Date of Inspection : 16-NOV-19
- (v) Prev.inspection date : 14-OCT-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHATIA LIMESTONE 9.008 HA**
- (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. : 07672-239911
E-mail : mines@kjscement.com
Phone : 07672-239900
- (f) Police Station : Nadan
- (g) First opening date : 04-APR-04
- (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 : MPR0443
- (b) Lease area : 7.86
- (c) Period of lease : 20
- (d) Date of Expiry : 04-NOV-95
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	:	Fresh under rule 22 MCR1960	17-JUL-03
Plan/Scheme of Mining	:	PMCP under 23B(2) for Existing	23-FEB-07
	:	Mining Scheme rule 12 MCDR1988	18-MAY-09
	:	Mining Scheme rule 12 MCDR1988	09-JUL-14
	:	MP review under 17(1) MCR 2016	06-JUN-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	6 BH	3 BH	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	NIL	
1e	Balance reserve as on 01/04/20	Proved Reserve (111) NIL Probable Reserve (122) 1536220 MT Feasibility Mineral Resource (211) NIL Pre-Feasibility Mineral Resource (222) 467056 MT	Proved Reserve (111) 1344420 MT Probable Reserve (122) NIL Feasibility Mineral Resource (211) 266057 MT	
1f	General remarks of inspecting officers on geology, exploration etc			Limestone deposit of the area belongs to Bhandar Group of Vindhyan Super Group. Deposit is stratified stratabound tabular deposit of regular habit.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

2a	Location of development w.r.t. lease area	In western Block.	In eastern block. Pit development not done as per approved proposal	Development not done at approved location . Violation under Rule 11(1) of MCDR'2017 pointed out for site deviation.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil/OB 1.5 m The 2nd & 3rd benches will be in limestone 6 m proposed	Separate benches in top soil, OB and mineral benches are being maintained	
2c	Stripping ratio or ore to OB ratio	1:0.29	1:0.44	Development not done at approved location leading to deviation in stripping ratio. Violation under Rule 11(1) of MCDR'2017 pointed out.
2d	Quantity of topsoil generation in m3	3990 m3	NIL	Development not done at approved location leading to deviation in soil production. Violation under Rule 11(1) of MCDR'2017 pointed out.
2e	Quantity of overburden generation in m3	2910 m3	6000 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 under Rule 11(1) of MCDR'2017 pointed out.

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	41235 MT	39552.710 MT	
3c	Recovery of sailable/usable mineral from ROM production	85%	85%	
3d	Quantity of mineral reject generation	No Mineral rejects as per approved document.	No Mineral rejects found as per provided records.	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	Not proposed	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	NA	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	Nil	

3j	Provision of drilling and blasting in mineral benches	As per approved document Drilling & blasting will be done as per parameter spacing: 1.0m Burden: 0.8m Depth of hole: 1.5m Dia of hole: 32m Charge per hole: 375gm Powder factor: 8.0t	Being done as per proposal as per provided records.	
3k	Provision of mining machineries in mineral benches	Drilling machine: Atlas Copco Compressor 02 nos. & Jack Hammer 04 nos. Loading Machine: L&T PC-200-Hyd. Excavator 01 nos. Transportation : Dumpers 03 nos. 10t. & 03 dumpers 16t. Miscellaneous additional equipments/machines will be deployed	Drilling machine: Atlas Copco Compressor 02 nos. & Jack Hammer 04 nos. Loading Machine: L&T PC-200-Hyd. Excavator 01 nos. Transportation: Dumpers 03 nos. 10t. & 03 dumpers 16t. 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 1.5m for OB & 6 m for mineral	Height of benches in overburden 1.5 and mineral 6 m	
3m	Total area covered under excavation/pits	Pit 6.65 ha. proposed for the plan period	Actual pit cover under excavation 5.15ha.	Violation under rule 11(1) of MCDR'2017 issued for deviation from approved proposal

3n	Ore to OB ratio for the pit/mine during the year.	1:0.29	1:0.44
3o	Total area put in use under different heads at the end of year	Mining: 6.65 ha. Roads: 0.1 ha. Infrastructure : 0.01 ha. OB/waste dump: 0.5 ha. NIL. Top soil preservation: 0.5 ha.	Mining: 5.15 ha. Roads: 0.1 ha. Infrastructure: 0.01 ha. OB/waste dump: NIL. Top soil preservation: 0.5 ha.
3p	Production of ROM mineral during the last five year period as applicable	2014-15 = 38526 2015-16= 40163 2016-17= 40832 2017-18= 39525 2018-19= 41235	2014-15 = 38496 2015-16= 39493.95 2016-17= 39743.55 2017-18= 18023.41 2018-19= 39552.71
3q	General remarks of inspecting officers on method of mining etc.		

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	The top soil Proposed 2018-19 3990m3 and OB/waste proposed 2018-19 2910 m3	The top soil not generated during the year and OB/waste is generated 6000m3	Violation under rule 11(1) of MCDR'2017 pointed out
4b	Location of topsoil, OB and mineral reject dumps	Location of top soil, OB/waste dumps N 598.40-524.45 and E2019.18-2114.35	Location of top soil, OB/waste dumps N 598.40-2114.35	
4c	Number of dumps within lease area and outside of lease area	One dump proposed within lease area	One dump proposed within lease area	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The OB waste generated will be simultaneously backfilled in the mined out land area of northern side of pit 2.	Inside UPL	
4e	Number of active and alive dumps.	one	one	
4f	Number of dead dumps.	None	None	
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 proposed dump.	Garland drain was not maintained properly	Violation under rule 11(1) of MCDR'2017 pointed out
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Nil	
4j	Number of settling ponds	None	None	
4k	Specific comments of inspecting officer on waste dump management	Simultaneous backfilling proposed	No mature area for backfilling developed. Generated waste are stacked on pit floor.	Violation under rule 11(1) of MCDR'2017 pointed out

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.	6.65 Ha.	5.15 ha.	Violation under rule 11(1) of MCDR'2017 pointed out
5b	Area under backfilling of mined out area	0.0717 ha.	NIL	UPD not reached till reporting period.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Carpetting on backfilled area	Backfilling not started till reporting period
5d	Total area fully reclaimed and rehabilitated	0.5740 ha.	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Concurrent backfilling porposed	No mature area for backfilling developed till reporting period.

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 for the year 2018-19	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	40	40	
6e	Cumulative no .of plants	Not mentioned	NA	
6f	Any other method of rehabilitation	Not mentioned	Not mentioned in provided records.	
6g	Cost incurred on watch and care during the year	Not mentioned	NA	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Simultaneous backfilling proposed	Backfilling not done	V/L under Rule issued
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Simultaneous backfilling proposed	backfilling not done	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not done	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not done	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.04	0.02	Violation sent for the same.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not done
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring for noise, air and water	Compliance of Environment monitoring done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

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	ROM mineral dispatched to cement plant of the company as per provided records.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	The Limestone of the lease area is of cement grade.	used at plant	
7d	Any beneficiation process at mines .	NA	NA	ROM are dispatched as per plant's requirement
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM are dispatched as per plant's requirement

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal and concurrent backfilling proposed	Seperate removal and stacking.	
8b	Concurrent use or storage of topsoil	Concurrent backfilling	stacking	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Concurrent backfilling and no proposal for external dumping	Inpit stacking	Violation pointed out for the same
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Not done as per proposal	Violation pointed out
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Not done	Violation pointed out
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The 0.2 ha. area was proposed for plantation in the lease boundary	40 saplings planted in the mining lease area	
8g	Survival rate	80%	70%	
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	Aesthetic beauty in and around mine area is required to be maintained
----	--	---

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. Raj Kumar	Name of the Mining Engineer: Mr. Anil Kumar Geologist: Mr. Narayan Prasad Shukla Manager: Mr. Raj Kumar	
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: 5.15 ha. Use for waste disposal: NIL Infrastructure : 0.01 ha. road area: 0.1 ha. Top soil preservation: 0.5 ha.	Pit area: 5.15 ha. Use for waste disposal: NIL Infrastructure: 0.01 ha. road area: 0.1 ha. Top soil preservation: 0.5 ha.	
9d	Scrutiny of Annual return on afforestation	Afforestation as per MP and AR 40 saplings planted in the lease area.	40 saplings planted in the lease area in the RY 2018-19	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not proposed	No any mineral reject generated during the year as per records.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	As per approved mining plan ROM was proposed 41235 t & actual production carried out 39552.71 t	ROM proposed 41235 t & actual production 39552.71 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/tonne production costs- Rs. 209.80/tonne	As per AR
9h	Scrutiny of Annual return on fixed assets	Fixed assets as per AR: Value of Fixed Assets (in rupees) 10600000	found in order
9k	Scrutiny of Annual return on mining machineries	As per AR 2018-19 BACK HOE 1.2 CUM 1 nos. DUMPER 16 TONNE 3 nos. WATER TANKER 5000 LITRE 1 nos.	Found as provided in AR

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)	16-DEC-19			
MCDR17	Rule 26(2)	16-DEC-19			
MCDR17	Rule 55(1) (1)	16-DEC-19			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines