

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-120

Mine code : 38MPR35062

- (i) Name of the Inspecting : **K006**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : K P Nigam (Agent-Mines), Raghvendra Dwivedi (Mine Man
Official with
Designation
- (iv) Date of Inspection : 17-NOV-19
- (v) Prev.inspection date : 20-MAR-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PIPARHAT (7.316 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 : PIPARHAT
Taluka : MAIHAR
Post office : BHADANPUR
Pin Code : 485771
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station : Maihar
- (g) First opening date : 09-NOV-82
- (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 : MPR0481
- (b) Lease area : 6.86
- (c) Period of lease : 20
- (d) Date of Expiry : 08-NOV-02
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	:	Existing rule 11 MCDR1988	17-DEC-97
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	18-MAY-99
		Renewal under rule 22 MCR1960	01-JAN-04
		Mining Scheme rule 12 MCDR1988	25-JUL-08
		Mining Scheme rule 12 MCDR1988	25-NOV-14
		MP review under 17(1) MCR 2016	28-JUL-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4BH	3BH	Violation pointed out for the same.
1b	Exploration over lease area for geological axis 1 or 2	4BH	03BH	Violation pointed out for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Departmental Exploration proposed. External Agency not proposed in the approved MP.	Exploration Agency: R K Drilling Expenditure: 2.75 Lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire area to be covered under G1	Entire area not covered under G1.	Violation pointed out for the same.
1e	Balance reserve as on 01/04/20	Proved Reserve (111) NIL Probable Reserve (122) 2258820 MT Feasibility Mineral Resource (211) NIL Pre-Feasibility Mineral Resource (222) 1545170 MT	As per provided records: Proved Reserve (111) NIL Probable Reserve (122) 1745139 MT Feasibility Mineral Resource (211) NIL Pre-Feasibility Mineral Resource (222) 1545170 MT	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration not carried out as per proposal and Entire area not covered under G1. Violation pointed out for the same.

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 N1525m to 1615m and E1913 to 2084m.	Actual worked done between Co-ordinates N1438m to 1659m and E1945 to 2066m.	The mine-development was lagging from the proposal and not as per the approved proposals of approved document. Violation pointed out for the same.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	1st Bench Soil/OB 3m 2nd & 3rd Bench Limestone 4-6m	1st Bench Soil/OB 3m 2nd & 3rd Bench Limestone 4-6m	
2c	Stripping ratio or ore to OB ratio	1:0.24	1:0.05	Violation pointed out for the same.
2d	Quantity of topsoil generation in m3	23850 m3	NIL	Violation pointed out for the same.
2e	Quantity of overburden generation in m3	19905 m3	22500 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine-development was lagging 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	447863 MT	443808.36 MT	

3c	Recovery of sailable/usable mineral from ROM production	Not proposed	NA
3d	Quantity of mineral reject generation	No Mineral rejects found.	No Mineral rejects found.
3e	Grade of mineral rejects generation and threshold value declared.	No Mineral Rejects, 34% CaO	No Mineral Rejects, 34% CaO
3f	Quantity of sub grade mineral generation.	No Mineral sub grades	No Mineral sub grades
3g	Grade of sub grade mineral generation	Not proposed	Not done
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.	Not proposed	Not proposed
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting will be done as per parameter	spacing: 6.0m Burden: 3.5m Depth of hole: 9m Dia of hole: 115m Charge per hole: 50kg. Powder factor: 6-8

3k	Provision of mining machineries in mineral benches	Drilling machine: L-8 (DTH machine) drill with integral compressor 01 nos. Loading Machine: L&T-800/ZXH650Hyd. 16t Excavator 02 nos. Transportation : Dumpers 04nos. 16t. & 16 dumpers 16t. Miscellaneous additional equipments/machines will be deployed	Drilling machine: L-8 (DTH machine) drill with integral compressor 01 nos. Loading Machine: L&T-800/ZXH650Hyd. Excavator 02 nos. Transportation: Dumpers 04nos. 16t. & 16 dumpers	
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 3m for OB & 4-6 m for mineral	Height of benches in overburden 3m and mineral 4-6 m	
3m	Total area covered under excavation/pits	Pit 5.287 ha. proposed for the plan period	Actual pit cover under excavation 3.84ha.	Violation pointed out for the same.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.24	1:0.05	
3o	Total area put in use under different heads at the end of year	Mining: 5.287 ha. Roads: 0.1 ha. Infrastructure : 0.05 ha. OB/waste dump: NIL.	Mining: 3.84 ha. Roads: 0.1 ha. Infrastructure: 0.05 ha. OB/waste dump: NIL	Violation pointed out.

3p	Production of ROM mineral during the last five year period as applicable	2014-15 = 62676 2015-16= 298917 2016-17= 464847 2017-18= 384593 2018-19= 447863	2014-15 = NIL 2015-16= NIL 2016-17= NIL 2017-18= 69873.33 2018-19= 443808.36
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3q	General remarks of inspecting officers on method of mining etc.	The exploration and mine development was lagging from the proposal and not as per the approved proposals of approved document. Violation pointed out.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	1st Bench Soil & OB 3 Mtr. And limestone 03 (2-4) benches	1st Bench Soil & OB 3 Mtr. And limestone 4) benches	
4b	Location of topsoil, OB and mineral reject dumps	Location of top soil, OB/waste dumps N 1688.76-1715.13 and E2080.89-2168.80	Actual location of OB/waste dump N 1688.76-1715.13 and E2080.89-2168.80	
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)	Within UPL N 1688.76-1715.13 and E2080.89-2168.80	Within UPL N 1688.76-1715.13 and E2080.89-2168.80	
4e	Number of active and alive dumps.	One active dump	One active dump	

4f	Number of dead dumps.	Not proposed	No dead dump found.	
4g	Number of dumps established.	one	one	
4h	Whether Retaining wall or garland drain all along dumps are there.	The garland drain and bund along with settling tank will be maintained in the boundary side and around the dump to prevent siltation of low lying areas and in rush of water into the mine.	No garland drain maintained as per proposal.	Violation pointed out for the same.
4i	Length of Retaining wall or garland drain all along dumps	The size of drain is 1mX0.5m.	Not garland drain around the dump	Violation for the same is pointed out.
4j	Number of settling ponds	one	one	
4k	Specific comments of inspecting officer on waste dump management			Garland drain is required to be maintained as per proposal.

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.	5.287 Ha.	3.84 ha.	
5b	Area under backfilling of mined out area	0.12 ha.	0.10 ha.	Violation pointed out for the same.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	19905 M3	7500 M3	
5d	Total area fully reclaimed and rehabilitated	0.12 ha.	Nil	Violation pointed out.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling is lagging as per proposal.

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	that the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19	Violation pointed out.
6b	Area available for rehabilitation (ha) .	NA	NA	Violation pointed out.
6c	afforestation done (ha).	NA	NA	Violation pointed out.
6d	No. of saplings planted during the year	NA	NA	Violation pointed out.
6e	Cumulative no .of plants	NA	NA	Violation pointed out.
6f	Any other method of rehabilitation	NA	NA	Violation pointed out.
6g	Cost incurred on watch and care during the year	NA	NA	Violation pointed out.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.12 ha.	NIL	As per observation during inspection.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.12 ha.	0.10 ha.	As per provided records during inspection. violatoin pointed out.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.12 ha.	0.08 ha	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not done	As per provided records during inspection.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not done.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	Not done	as per porvided records during inspection.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, Water, Noise levels will monitored 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.			It is required to compliance as per PMCP and the yearly report in respect of rule 26(2) of MCDR 2017 required to be submitted for the year 2018-19.

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 at village Amilia.	Entire ROM has been fed to own cement plant as per provided 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.	The mineral is being used in cement making as per provided records.	
7d	Any beneficiation process at mines	Not proposed	NA	

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 as per provided records.	
8b	Concurrent use or storage of topsoil	No action will be taken for utilization and proper stacking of top soil to be left at end.	The top soil used for plantation as per provided records.	
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	Not done	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	The mined out land which will be fully exhausted by virtue of excavation up to full depth of mineralization will be simultaneously /progressively reclaimed by backfilling of OB & Waste generated during the course of mining.	Area under operation not reclaimed	Violatoin pointed out.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The 0.12 ha. area proposed for plantation on backfilled area	0.08 ha. area under plantation	
8g	Survival rate	Not proposed	NA	
8h	Water sprinkling on roads to control airborne dust	Regular water sprinkling will be maintained to control airborne dust.	water sprinkling found at roads during site visit.	
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
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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. Binay Kumar Choudhary Geologist: Mr. Narayan Prasad Shukla Manager: Mr. Raghvendra Prasad Dwivedi	Name of the Mining Engineer: Mr. Binay Kumar Choudhary Geologist: Mr. Narayan Prasad Shukla Manager: Mr. Raghvendra Prasad Dwivedi
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: 3.84 ha. Use for waste disposal: NIL Infrastructure/road: 0.15ha. Reclaimed area: NIL	Pit area: 3.84 ha. Use for waste disposal: NIL Infrastructure/road: 0.15ha. Reclaimed area: NIL
9d	Scrutiny of Annual return on afforestation	Afforestation as per MP and AR 150 saplings planted within lease area.	150 saplings planted within lease area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No any mineral reject generated during the year.	No any mineral reject generated during the year as per records provided.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM was proposed 447863 t & actual production carried out 443808.36 t	As per approved mining plan ROM was proposed 447863 t & actual production carried out 443808.36 t

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	sale value,- captive used Ex. Mine price -Rs. 216.41/tonne production costs- Rs. 216.41/tonne	sale value,- captive used Ex. Mine price -Rs. 216.41/tonne production costs- Rs. 216.41/tonne
9h	Scrutiny of Annual return on fixed assets	Fixed assets as per AR: Value of Fixed Assets (in rupees) 21500000	Records found as per AR.
9k	Scrutiny of Annual return on mining machineries	As per AR 2018-19 BACK HOE 1.2 CUM 02 NOS. DUMPERS 16 TONNE 4 NOS. WATER TANKER 5000 Liter 01 NOS.	Found as per 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			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines