

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-120

Mine code : 38MPR35062

- (i) Name of the Inspecting : C004) ROBERT SIMON C
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : K P Nigam (Agent-Mines), Narayan Prasad Shukla (Mine
Official with
Designation
- (iv) Date of Inspection : 06-APR-22
- (v) Prev.inspection date : 05-JUL-17

PART-I : GENERAL INFORMATION

1. (a) Mine Name : PIPARHAT (7.316 HA)
- (b) Registration NO. : IBM/5097/2011
- (c) Category : A
- (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. : 07672-239911
E-mail : mines@kjsccement.com
Phone : 07672-239900
- (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 : 7.316
- (c) Period of lease : 20
- (d) Date of Expiry : 08-NOV-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	:	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

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	G2-7.316	
1e	Balance reserve as on 01/04/20	Not specified	122-956496 Tonnes as per AR	
1f	General remarks of inspecting officers on geology, exploration etc			The occurrence of limestone in the lease area is stratigraphically controlled and is associated with Rohtas of Semri Group of Vindhyan super group.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The working will be between Co-ordinates N1525m to 1615m and E1913 to 2084m.	Could not be verified as the pit was waterlogged.	Violation pointed out under Rule 11(1).
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Could not be verified as the pit was waterlogged.	Violation pointed out under Rule 11(1).
2c	Stripping ratio or ore to OB ratio	1:0.24	1:0.25	
2d	Quantity of topsoil generation in m3	19581	Details not maintained.	

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2e	Quantity of overburden generation in m3	14494	13769	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development could not be verified as the pit was waterlogged. Violation pointed out under Rule 11(1).

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	326120 T	326119.680 T	
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	Entire ROM is dispatched.	
3d	Quantity of mineral reject generation	Not proposed	NA	
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	NA	NA	
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 done	

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3j	Provision of drilling and blasting in mineral benches	Proposed	Could not be verified as the pit was submerged.	Violation pointed out under Rule 11(1).
3k	Provision of mining machineries in mineral benches	Proposed	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 0.900 CUM 2 Non Electrical Opencast DUMPER 18.000 TONNE 4 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	Could not be verified as the pit was submerged.	Violation pointed out under Rule 11(1).
3m	Total area covered under excavation/pits	Not specified	4.605 ha as per AR but the same could not be verified during inspection as the pit was submerged.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.26	1:0.25	

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3o	Total area put in use under different heads at the end of year	Not specified	Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 4.605 4.605 (iii) Reclaimed/Rehabilitated 0.000 0.100 0.100 (iv) Used for waste disposal 0.000 0.150 0.150 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.100 0.100
3p	Production of ROM mineral during the last five year period as applicable	2015-16= 298917 2016-17= 464847 2017-18= 384593 2018-19= 447863 2019-20= 497475	2015-16= NIL 2016-17= NIL 2017-18= 69873.33 2018-19= 443808.36 2019-20= 152099.710

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	Could not be verified as pit was submerged	Violation pointed out under Rule 11(1).
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	

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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	Nil	
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 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	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Full extraction before backfilling proposed.	Full extraction before backfilling adopted.	

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5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Plantation	Plantation	
5d	Total area fully reclaimed and rehabilitated	0.1 ha	0.1 ha as per available records.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Pit was submerged during inspection. Pit bottom could not be ascertained. Violation pointed 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).	Yes	Submitted	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	NA	NA	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	NA	

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, Water, Noise levels will be monitored on periodically	Compliance of Environment monitoring done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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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			As per approved document, the Limestone of the lease area is not intended for supply to any intermediate industry for up-gradation or any beneficiation.

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.	

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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.	The mine pit was submerged.	Violatoin pointed out under Rule 11(1).
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			Aesthetic beauty of the lease areas average.

 Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	MR and AR online submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager Rajendra Prasad Saini Mining Engineer in charge Binay Kumar Choudhary Geologist in charge Narayan Shukla	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 4.605 4.605 (iii) Reclaimed/Rehabilitated 0.000 0.100 0.100 (iv) Used for waste disposal 0.000 0.150 0.150 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.100 0.100	
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 600 (ii) Survival rate in percentage 75.00	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Closing stock of Processed ore(LIMESTONE) Cement grade at mine head (in tonne) is 21387.110	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	<p>rade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(LIMESTONE)</p> <p>Grades Opening stock at mine head (in tonne)</p> <p>Production (in tonne)</p> <p>Dispatches from mine head (in tonne)</p> <p>Closing stock at mine head (in tonne)</p> <p>Ex-mine price (in . Per Tonne)</p> <p>(a) LD 0.000 0.000 0.000 0.000 0.00</p> <p>(b) SMS 0.000 0.000 0.000 0.000 0.00</p> <p>(c) Chemical 0.000 0.000 0.000 0.000 0.00</p> <p>(d) BF 0.000 0.000 0.000 0.000 0.00</p> <p>(e) Cement 0.000 326119.680 304732.570 21387.110 236.41</p>
9h	Scrutiny of Annual return on fixed assets	NIL	Nil
9k	Scrutiny of Annual return on mining machineries	Given	<p>Type of machinery</p> <p>Capacity of each unit</p> <p>No.of units</p> <p>Electrical/ Non-Electrical (specify)</p> <p>Used in opencast/ underground (specify)</p> <p>BACK HOE 0.900 CUM 2 Non Electrical Opencast</p> <p>DUMPER 18.000 TONNE 4 Non Electrical Opencast</p> <p>WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast</p>

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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)	08-JUL-22			
MCDR17	Rule 34(1)	08-JUL-22			

Date :**(ROBERT SIMON C)**

Indian Bureau of Mines