

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

Mining Plan Modification REPORT

Jabalpur regional office

Mine file No : MP/SAT/LST-205

Mine code : 38MPR35142

- (i) Name of the Inspecting : **SQ23**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri K.P. Nigam (Agent - Mines) & Mr. Shukla (Geologi
Official with
Designation
- (iv) Date of Inspection : 20-JUL-21
- (v) Prev.inspection date :

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 : 40
- (d) Date of Expiry : 26-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	08	06	over 5 years
1b	Exploration over lease area for geological axis 1 or 2	08 bh	06 done	violation pointed out
1c	Exploration Agencies and Expenditure in lakh rupees during the year	details not given	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2		4.5 hect balance to be brought to G1	
1e	Balance reserve as on 01/04/20		reserves as on 01.04.21-122-11.256108 mioT,222-2.86463,333-.148500mioT	
1f	General remarks of inspecting officers on geology, exploration etc			the area has developed pit and exploration boreholes have been done.general geology is soil 0-3.0 mtr,4-21 mtr limestoneand bottom most is nagod reject stone.trend is NE-sw and dip is 2-4degrees down south.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	north west side(N 2686500-2686800,E489400-489600)	working done in SE(2686300-600,489900-490000)	deviation in working ,violation pointed out

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	made	
2c	Stripping ratio or ore to OB ratio	1:.29	1:.24	
2d	Quantity of topsoil generation in m3	8174m3	13000m3	
2e	Quantity of overburden generation in m3	100891m3	36000m3	violation given for observed deviation in working.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	deviation in location
3b	Quantity of ROM mineral production proposed	500008	4,96,665	
3c	Recovery of sailable/usable mineral from ROM production	yes	done	
3d	Quantity of mineral reject generation	12%	12%	interburden waste
3e	Grade of mineral rejects generation and threshold value declared.	below threshold	below threshold	inter burden waste
3f	Quantity of sub grade mineral generation.	not proposed	nil	
3g	Grade of sub grade mineral generation	nil	nil	

3h	Manual / Mechanised method adopted for segregating from ROM	na	na	interburden seperated in mining
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NP	NIL	
3j	Provision of drilling and blasting in mineral benches	proposed	done	
3k	Provision of mining machineries in mineral benches	proposed	provided and used	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 mtr benches	suitable,made	
3m	Total area covered under excavation/pits	12.67	14.15	
3n	Ore to OB ratio for the pit/mine during the year.	1:..29	1:..24	
3o	Total area put in use under different heads at the end of year	20.75	20.90	
3p	Production of ROM mineral during the last five year period as applicable	2016-2017- 500170 2017-18- 500280 2018-19- 500690 2019-20- 500110 2020-21-500008	2016-2017- 392166.09 2017-18- 422092.35 2018-19- 499639.36 2019-20- 498411.59 2020-21-496665.50	

3q	General remarks of inspecting officers on method of mining etc.	the mine is well developed in benches and has been producing close to capacity in last two years.
----	---	---

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	backfilling	backfilling and dump	
4b	Location of topsoil, OB and mineral reject dumps	ob-N26686200-2686600,E489500-489800/soil 2686400-2686600,E490000-490200	dumping is done in these area	
4c	Number of dumps within lease area and outside of lease area	all with in lease	all with in lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	temporaray dumps	temporaray dumps	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	nil	nil	
4g	Number of dumps established.	04	04	in one line north to south
4h	Whether Retaining wall or garland drain all along dumps are there.	Np	nil	
4i	Length of Retaining wall or garland drain all along dumps		not made	violation issued
4j	Number of settling ponds	not proposed	nil	

4k	Specific comments of inspecting officer on waste dump management	upkeep of dump was not upto mark.violation issued and also for not doing planned backfilling.
----	--	---

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	backfilling not done	violation issued
5b	Area under backfilling of mined out area	.50 hect	.30	not done as per plan ,violation issued.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	store and use	store and use.	
5d	Total area fully reclaimed and rehabilitated	nil	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling is not done at correct place.violation is issued /pointed out for same.

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).	required	not submitted	violation issued.

6b	Area available for rehabilitation (ha) .	no proposal for mined out benches	na	
6c	afforestation done (ha).	no proposal for mined out benches	na	
6d	No. of saplings planted during the year	no proposal for mined out benches	na	
6e	Cumulative no .of plants	no proposal for mined out benches	na	
6f	Any other method of rehabilitation	no proposal for mined out benches	na	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	pit area-10.11	0.30	deviation
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	.811 hect	0.30	wrong place/violation issued.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NP	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	not proposed	nil	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	not proposed	nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	100 nos	100 nos	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	.05 hect	.05 hect	plantataion area barrier zone
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation	done	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			though backfilling is done but it is wrong place,violation is issued.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	ROM	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NP	NA	
7c	Different grade of mineral sorted out at mines.	not proposed	na	
7d	Any beneficiation process at mines .	not proposed	na	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			after removing interburden cement grade limestone is sent to cement plant.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	store and use	store and use	
8b	Concurrent use or storage of topsoil	store and use	store and use	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	ob and soil	ob and soil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	yes	not done correctly	violation given

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	planned	done but deviation	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	baseline not given, addittional 100nos	100nos done	
8g	Survival rate	75%	75%	
8h	Water sprinkling on roads to control airborne dust	yes	done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			dumps are not propoerly maintained.violation issued.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME_ anil kumar, geologis t-Narain shukla		info given

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.) Covered under current (O/C) Workings 12.670 (iii) Reclaimed/Rehabilitated 0.817 (iv) Used for waste disposal 0.000 7.420 7.420 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.100 (vi) Other Purpose (plantation) 0.250	details given
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year 250 (ii) Survival rate in percentage 80.00	info given
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral rejects	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No stocks ,nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Exmine- 209.80, cop- 209.80 rs /t , captive consumption not sold	

9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets -RS 30653657	
9k	Scrutiny of Annual return on mining machineries		BACK HOE 0.900 CUM 2 Non info given Electrical Opencast BACK HOE 1.100 CUM 1 Non Electrical Opencast DUMPER 16.000 TONNE 10 Non Electrical Opencast ROCK DRILL (NON ELEC.) 110.000 MM 1 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast

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)	12-OCT-21	07-DEC-21				
MCDR17	Rule 26(2)	12-OCT-21	07-DEC-21				
MCDR17	Rule 55(1) (1)	12-OCT-21	07-DEC-21				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines