

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-127

Mine code : 38MPR35166

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S K Sinha Mine Agent, S K Jain GM Geologist
Official with
Designation
- (iv) Date of Inspection : 16-JAN-20
- (v) Prev.inspection date : 09-MAR-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **UMROR**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SATNA
Village : BHADANPUR
Taluka : MAIHAR
Post office : MAIHAR
Pin Code : 485772
FAX No. : 07674-322306,0761-321881
E-mail : mc_mines@yahoo.com
Phone : 07601-32043,32067,32068
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for :
correspondance : MAIHAR CEMENT
P.O. SARLA NAGAR, MAIHAR, SANTA (M.P.) 485772
3. (a) Lease Number : MPR0423
- (b) Lease area : 296.96
- (c) Period of lease :
- (d) Date of Expiry : 30-MAR-30
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : MAIHAR CEMENT
 P.O. SARLA NAGAR, MAIHAR
 SATNA MADHYA PRADESH
 Phone: 07601-32043, 32067, 32068
 FAX : 07674-322306, 0761-321881

Owner : CENTURY TEXTILES & INDUSTRIES LTD.
 CENTUARY BHAWAN, DR. ANNI
 BESENT ROAD, BAMBAY
 AHMEDNAGAR MAHARASHTRA
 Phone: 022-4300351
 FAX : 022-4309491

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	20-JUN-96
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	16-SEP-05
		Mining Scheme rule 12 MCDR1988	08-JUN-09
		Mining Scheme rule 12 MCDR1988	06-MAY-14
		MP review under 17(1) MCR 2016	05-MAR-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4 borehole proposed in the year 2018-19	proposed boreholes drilled during the year	
1b	Exploration over lease area for geological axis 1 or 2	exploration upto the level G1	41.42 hectare area explored upto G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	In house M/s Maihar Cement	Not Mentioned	
1d	Balance area to be explored to bring Geological axis in 1 or 2	proposal given for further years to explore G2 area in to G1	proposal given for further years to explore G2 area into G1	
1e	Balance reserve as on 01/04/20		as on 01/04/2019 111-18.08 million tonnes 211-23.34 million tonnes	as per mining plan approved on 05/03/2019
1f	General remarks of inspecting officers on geology, exploration etc			Limestone of the lease area belongs to Vindhyan super group form rohtas to bhander formation, limestone of the area interclatted with shale and other impurities.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	development proposeed in the four pits within the lease area	development has been carried out from four pits situated whithin the lease area	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	it is peoposed to develop separate benches in teh top soil and mineral	separate benches available in the top soil bench (1) and mineral bench i.e. limestone 3-4 (working)	
2c	Stripping ratio or ore to OB ratio	1:0.12 to 1:0.83	1:0.11	
2d	Quantity of topsoil generation in m3	NA	NIL	
2e	Quantity of overburden generation in m3	136963 cubic meter	118583 cubic meter	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development as per approved mining plan with some irrregular benching.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	four pits proposed for production	four pits were proposed for production	
3b	Quantity of ROM mineral production proposed	990720	378918	
3c	Recovery of sailable/usable mineral from ROM production	90% recovery	80-90% recovery	
3d	Quantity of mineral reject generation	Not proposed	NIL	ROM is being used in captive cement plant, no mmineral reject reported
3e	Grade of mineral rejects generation and threshold value declared.	not proposed	NIL	ROM is being used in captive cement plant, no mineral reject generats durign the process

3f	Quantity of sub grade mineral generation.	not proposed	NIL	ROM is being used in captive cement plant, no mineral reject generats durign the process
3g	Grade of sub grade mineral generation	not proposed	NIL	ROM is being used in captive cement plant, no mineral reject generats durign the process
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical method of mining proposed	mechanical method of mining is being adopted with use of HEMM and showels	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	no analysis / study proposed for beneficiation.	
3j	Provision of drilling and blasting in mineral benches	drilling and blasting proposed	drilling and blasting propsed and in use for mineral production	
3k	Provision of mining machineries in mineral benches	use of mining machineries proposed in the mineral benches	use of mining machineries proposed in the mienral benches, HEMM and SHOWELS is being used	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	suitable bench height proposed	benches in OBV and mineral benches as per approved mining plan and suitable for mining.	
3m	Total area covered under excavation/pits	68.57 hecatre	45.09 hectare	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.9	1:2.0	
3o	Total area put in use under different heads at the end of year	68.57	60.44	

3p	Production of ROM mineral during the last five year period as applicable	2014-15=993960 2015-16=978708 2016-17=199252 2017-18=624432 2018-19=378918 2018-19=990720	2014-15=198629 2015-16=197177 2016-17=199252 2017-18=624432 2018-19=378918 2018-19=990720
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3q	General remarks of inspecting officers on method of mining etc.	minign is being doen in the proposed location, with slower rate of development and production.
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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)	Separate dumping for top soil OB proposed	Top soil and OB is being dumped serately as per approved mining plan proposal	
4b	Location of topsoil, OB and mineral reject dumps	it was proposed to dump top soil and OB in the old pit E	top soil and OB is being dupmed in the Old pit E as per proposal	
4c	Number of dumps within lease area and outside of lease area	8	8-9	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	out side the UPL	outside the UPL	
4e	Number of active and alive dumps.	8	8	
4f	Number of dead dumps.	4	4	
4g	Number of dumps established.	NA	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	garland drain proposed	garland drain prepare around 100*2*1 meters	

4i	Length of Retaining wall or garland drain all along dumps	Garland drain proposed	garland drain prepared 200*2*1 m	
4j	Number of settling ponds	Proposed	one settling ponds	
4k	Specific comments of inspecting officer on waste dump management			Top soil is being dumped separately 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 extration of mineral proposed	full extartion of mineral proposed before initiate backfilling	
5b	Area under backfilling of mined out area	0.7 hectare proposed	0.7 hectare is being backfilled	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	use of top soil is proposed for planttaion	top soil is being used in plantation	
5d	Total area fully reclaimed and rehabilitated	NA	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling is being carrie dout in the lease area no area fully reclaimed

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	Not Submitted
6b	Area available for rehabilitation (ha) .	NA	NIL
6c	afforestation done (ha).	2.08 hectare	2.41 hectare
6d	No. of saplings planted during the year	2500 aprox	3000 aprox
6e	Cumulative no .of plants	12000	12000 aprox
6f	Any other method of rehabilitation	Not proposed	NIL
6g	Cost incurred on watch and care during the year	not mentioned	not mentioned
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	proposed	backfilling prposed for voids available after full extratction of mineral
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	proposed	proposed after full extration of mineral
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	proposed	afforstation is being done on the backfilled area

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	proposed	plantation is being done on the non-mineralized virgin area	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	proposed	plantation is proposed for rehabilitation of the area	
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	its being done as per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			plantaction over non-mineralized area is being done, plantation proposed in backfilled area for co-current use of top soil

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 dispatch proposed	ROM is being dispatched to the captive cement plant
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed	NIL
7c	Different grade of mineral sorted out at mines.	Not proposed	NIL
7d	Any beneficiation process at mines .	Not proposed	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		ROM is being dispatched to the captive cement plant, no processing is being adopted for beneficiation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	separate removal and storage of Top soil and utilisatio is being adopted	
8b	Concurrent use or storage of topsoil	Proposed	top soil is being used in planttaion	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	waste is being dumped separately	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	backfilling is proposed for the use of OB and waste generated	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	phase restoration proposed by means of backfilling and plantation over the backfilled area	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	provided in the approved mining plan	
8g	Survival rate	80%	75-80%	
8h	Water sprinkling on roads to control airborne dust	proposed	adopted as per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around of the mine is quite good needs improvements

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR Submitted for 2018-19 MR submitted upto Feb 20	AR Submitted for 2018-19 MR submitted upto Feb 20	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Furnished	S K Garg Mining Engineer, S K Jain Geologist, Pradeep Rai Manager, S K Sinha Agent	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	in the AR details furnished	
9d	Scrutiny of Annual return on afforestation	Furnished	furnished	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	furnished	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Furnished	furnished	ROM dispatched into Captive Cement Plant
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	furnished	production cost 231.10	
9h	Scrutiny of Annual return on fixed assets	furnished	383300678 for four leases	
9k	Scrutiny of Annual return on mining machineries	furnished	furnished	

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)	10-FEB-20			
MCDR17	Rule 26(2)	10-FEB-20			
MCDR17	Rule 33	10-FEB-20			
MCDR17	Rule 47(a)	10-FEB-20			
MCDR17	Rule 48	10-FEB-20			
MCDR17	Rule 50	10-FEB-20			
MCDR17	Rule 55(1) (3)	10-FEB-20			

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines