

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-85

Mine code : 38MPR35112

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S K Sinha, S K Jain Geologist, Abhisekh S Geologist
Official with
Designation
- (iv) Date of Inspection : 16-JAN-20
- (v) Prev.inspection date : 31-JAN-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHADANPUR (361.428HA)**
- (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 : SARLANAGAR
Pin Code : 485772
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : M/S MAIHAR CEMENT
correspondance : P.O. SARLA NAGAR, MAIHAR,
DIST. SANTA (M.P.) 485772
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
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	:	Mining Scheme rule 12 MCDR1988	27-MAY-01
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	01-APR-06
		Mining Scheme rule 12 MCDR1988	28-JUN-10
		Modif. approved Mining Scheme	10-APR-12
		Mining Scheme rule 12 MCDR1988	06-APR-15
		Renewal under rule 24 MCR1960	22-APR-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	In the reporting year 2018-19, 10 numbers of core boreholes were proposed	10 boreholes were drilled during the year	
1b	Exploration over lease area for geological axis 1 or 2	exploration proposed upto G1 level	Upto G1 level fo exploration done for mineralized area	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s Maihar Cement Works	M/s Maihar Cement Works	
1d	Balance area to be explored to bring Geological axis in 1 or 2	50.2 hectare of G2 Level	50.2 hectare needs to expore to bring G2 into G1, further exploration proposed in the latest approved mining plan	
1e	Balance reserve as on 01/04/20	as on 01/04/2014 111-17.90 121-NIL	as on 01/04/2019 111-32.913 121-NIL	
1f	General remarks of inspecting officers on geology, exploration etc			limestone of the lease area belongs to the Vindhyan Super Group of the rohtas formation, limestone is of grey in colour with interclated shale layers

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	proposal given for the development in A the PitB-2 and Pit-A	Development doen in the proposed PitB-2 and Pit-	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in top soil, OB and mineral proposed	separate benches maintained in the OB and Mineral
2c	Stripping ratio or ore to OB ratio	1:0.057	1:0.020
2d	Quantity of topsoil generation in m3	2058 cubic meter	508 cubic meter
2e	Quantity of overburden generation in m3	11000 cubic meter	0 cubic meter
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development done in the proposed location with slower rate of development which effects the development and production

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two pits were proposed for production	two pits were used for production	
3b	Quantity of ROM mineral production proposed	1297069	1296429	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100%	rom is being used in captive cement plant
3d	Quantity of mineral reject generation	Not proposed	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	

3f	Quantity of sub grade mineral generation.	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical method proposed	Mechanical method adopted for segregation
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	not proposed	NIL
3j	Provision of drilling and blasting in mineral benches	proposed	drillign and blasting as per proposal
3k	Provision of mining machineries in mineral benches	proposed	as per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed	proposed height and width suitable for mining
3m	Total area covered under excavation/pits	179.777	168.697
3n	Ore to OB ratio for the pit/mine during the year.	1:0.057	1:0.020
3o	Total area put in use under different heads at the end of year	179.777	168.697

3p	Production of ROM mineral during the last five year period as applicable	2015-16-1225645 2016-17-1297222 2017-18-1297022 2018-19-1297237	2015-16-1287328 2016-17-1295521 2017-18-1295814 2018-19-1296429
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3q	General remarks of inspecting officers on method of mining etc.	HEMM is being used in mineral benches, drillign and blasting as per given proposal in approved mining plan.
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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 dump for OB proposed	OB is being dumped separetly as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	No Top Soil Dump proposed OB dumps proposed to be dumped in pit B2	Top Soil-NIL, OB is beimg dupmed in pit B2	
4c	Number of dumps within lease area and outside of lease area	one OB dump proposed withinth elease area	One OB dump is within the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out Side teh UPL	Out Side the UPL as per proposal	
4e	Number of active and alive dumps.	One	One OB dump	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	not proposed	NIL	

4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	retaining wall prepared of 800*2*1 meter	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management			OB is being dumped in the designated place 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 of mineral proposed	full extaction is being done before backfilling any area as per proposal	
5b	Area under backfilling of mined out area	2.50 hectare	2.50 hectare	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed	TOP Soil is being used in planttaion /afforestation program	
5d	Total area fully reclaimed and rehabilitated	2.50 hecatre	2.50 hecatre	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	OB is being used in the backfilling of fully extarcted area and top soil is being used in planttaion over the backfilled area around 2.5 hectare area has been backfilled and afforestation program been carried out during the year
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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).	Proposed	Not Submitted	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	6.0 hectare	6.80 hectare till plan period	
6d	No. of saplings planted during the year	2000	1500 aprox	
6e	Cumulative no .of plants	12600	12000 aprox	
6f	Any other method of rehabilitation	Not Proposed	NIL	
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	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	as per proposal in approved mining plan

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Dispatch of ROM 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 beneficiation process proposed or adopted in the lease area
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Separate removal and utilization of soil in planttaion programm is being done	
8b	Concurrent use or storage of topsoil	proposed	top soil is being used in plantaion program	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	as per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	waste and OB is proposed to be used in reclaimanation program in fully extraction area	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	propsoed	as per proposal	
8g	Survival rate	99%	90-95 %	
8h	Water sprinkling on roads to control airborne dust	proposed	as per proposal water tanker and sprinklers installed in the lease area	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			required improvements

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR submitted upto 2018-19 MR submitted upto Feb 2020	AR submitted upto 2018-19 MR submitted upto Feb 2020	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	furnished	Manager Shri Pradeep Rai Mining Engineer in charge Shri S.K. Garg Geologist in charge Shri S.K. Jain	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	furnished	furnished	
9d	Scrutiny of Annual return on afforestation	furnished	furnished	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	NA	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnished	furnished
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	furnished	230.10 rs cost per tonne
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