

**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 : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 22-DEC-20
- (v) Prev.inspection date : 16-JAN-20

**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
		MP review under 17(1) MCR 2016	06-MAR-20

## 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	Proposed BH Nos.- 10 nos. Proposed Drilling - 300M.	Proposed BH Nos.- 10 nos. Proposed Drilling -300M.	violation pointed out
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 be explored to bring G2 into G1	
1e	Balance reserve as on 01/04/20	111-25.5 MT	111-33 MT	
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	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NORTH BLOCK Pit- B2 and SOUTH BLOCK Pit-A	NORTH BLOCK Pit- B2 and SOUTH BLOCK Pit-A	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NORTH BLOCK Pit- B2:"OB Bench - NIL Bench - 393-387 Bench - 387-381 Bench - 387-381 Bench -381-375 Bench -375-369 Bench - 369-363 Bench - 363-357 Bench - 357-351 Bench - 351-345 ". SOUTH BLOCK Pit-A OB Bench -389-387 Bench -387-381 Bench -377-371 "	NORTH BLOCK Pit- B2: "OB Bench - NIL Bench - 393-387 Bench - 387-381 Bench -381-375 Bench -375-369 Bench - 369-363 Bench - 363-357 Bench -377-373 "	
2c	Stripping ratio or ore to OB ratio	1:0.23	1:0.02	
2d	Quantity of topsoil generation in m3	340	nil	violation pointed out.
2e	Quantity of overburden generation in m3	17300	nil	violation pointed out.
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.

---

Exploitation:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

3a	Number of pit proposed for production	02 nos	02 nos	
3b	Quantity of ROM mineral production proposed	12949885 tonnes	635923 tonnes	violation pointed out
3c	Recovery of sailable/usable mineral from ROM production	99%	98.5%	
3d	Quantity of mineral reject generation	280573 TONNES	10688 TONNES	violation pointed out
3e	Grade of mineral rejects generation and threshold value declared.	below 34% CaO & Above 6.5% MgO	below 34% CaO & Above 6.5% MgO	
3f	Quantity of sub grade mineral generation.	nil	nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed	Mechanised method adopted	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	nil	nil	
3j	Provision of drilling and blasting in mineral benches	proposed	drilling and blasting done 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	yes	proposed height and width suitable for mining	
3m	Total area covered under excavation/pits	120 ha.	109.95 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.23	1:0.02	
3o	Total area put in use under different heads at the end of year	179.77 Ha	168.69 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2015-16 1296835 2016-17 1297222.5 2017-18 1297020 2018-19 1297069 2019-20 1297237	2015-16 1287328 2016-17 1295521 2017-18 1295814 2018-19 1296429 2019-20 635923	
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.

---

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	as per proposal	

---

4b	Location of topsoil, OB and mineral reject dumps	yes	within the lease area
4c	Number of dumps within lease area and outside of lease area	02 nos	02 nos
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside upl	outside upl
4e	Number of active and alive dumps.	02 nos	02 nos
4f	Number of dead dumps.	nil	nil
4g	Number of dumps established.	nil	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	garland drain proposed	"Garland drain along dump :5000mtr*2mtr*1mtr"
4i	Length of Retaining wall or garland drain all along dumps	yes	"Garland drain along dump :5000mtr*2mtr*1mtr"
4j	Number of settling ponds	nil	nil
4k	Specific comments of inspecting officer on waste dump management		

---

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 before backfilling	full extraction of mineral before backfilling adopted	

---

5b	Area under backfilling of mined out area	proposed	17.83	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed	Top Soil is being used in plantation	
5d	Total area fully reclaimed and rehabilitated	17.830	17.830	
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 inplantation over the backfilled area.

---

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	not submitted	violation pointed out.
6b	Area available for rehabilitation (ha) .	0.5 ha	0.5 ha	
6c	afforestation done (ha).	0.5 ha	0.5 ha	
6d	No. of saplings planted during the year	1000 nos	1000 nos	
6e	Cumulative no .of plants	15000 nos	12000 nos	
6f	Any other method of rehabilitation	NA	NA	

---

6g	Cost incurred on watch and care during the year	NA	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NA	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1000 nos	1000 nos
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA

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)	Quarterly	Quarterly
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

---

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	ROM is being dispatched to the captive cement plant, no beneficiation process proposed or adopted in the lease area
----	--	---	---

---

**Environment:**


---

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	Separate removal and utilization of soil in plantation programm is carried out.	
8b	Concurrent use or storage of topsoil	proposed	topsoil in plantation programm is carried out.	
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	yes	waste and OB is proposed to be used in reclamation program.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	as per proposal	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%	
8h	Water sprinkling on roads to control airborne dust	proposed	Water sprinkling on roads to control airborne dust is carried out.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			adequate improvement required to maintain mine area.

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes	"A.R. Submitted upto 2019-20 M.R. Submitted upto March 2021"	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	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.	given	Covered under current (O/C) Workings 114.220 Reclaimed/Rehabilitated 17.830 Used for waste disposal 14.890	
9d	Scrutiny of Annual return on afforestation	yes	furnished	

---

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	given	furnished
9f	Scrutiny of Annual return on ROM stock and/or graded ore	given	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	yes	ex mine price for cement grade limestone is 318.69 rupees per tonnes
9h	Scrutiny of Annual return on fixed assets	NA	Nil
9k	Scrutiny of Annual return on mining machineries	given	HOVEL (HYDRAULIC) 3.900 CUM 4 Non Electrical Opencast BACK HOE 1.700 CUM 1 Non Electrical Opencast DUMPER 50.000 TONNE 6 Non Electrical Opencast TIPPER 14.000 CUM 3 Non Electrical Opencast DOZER 380.000 HP 1 Non Electrical Opencast FRONT END LOADER 4.600 CUM 2 Non Electrical Opencast EXPLOSIVE VAN 3.700 TONNE 1 Non Electrical Opencast EXPLOSIVE VAN 2.400 TONNE 1 Non Electrical Opencast WATER TANKER 10000.000 LITRE 2 Non Electrical Opencast BLAST HOST DRILL 115.000 MM 2 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)	05-FEB-21	03-MAR-21				
MCDR17	Rule 26(2)	05-FEB-21	03-MAR-21				
MCDR17	Rule 33	05-FEB-21	03-MAR-21				
MCDR17	Rule 55(1) (1	05-FEB-21	03-MAR-21				

**Date :**

**(ROBERT SIMON C)**

Indian Bureau of Mines