

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/SATNA/LST-66

**Mine code :** 38MPR35113

- (i) Name of the Inspecting : **SQ05** ) **DEEPAK SHARMA**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S K Jain Geologist, S K Sinha Manager Mines  
Official with  
Designation
- (iv) Date of Inspection : 15-JAN-20
- (v) Prev.inspection date : 30-JAN-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **TILOURA (193.252 HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : SATNA  
Village : TILOURA, SIRMILLI  
Taluka : MAIHAR  
Post office : TILOURA  
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 : MPR0426  
(b) Lease area : 193.25  
(c) Period of lease :  
(d) Date of Expiry : 31-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

## Mining Engineer

Name : DEVESH GHULEY, Full Time  
Qualification : B.E. (MINING)  
Appointment/ :  
Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	11-APR-94
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	03-SEP-01
		Mining Scheme rule 12 MCDR1988	06-JUN-06
		Mining Scheme rule 12 MCDR1988	29-JUL-10
		Mining Scheme rule 12 MCDR1988	07-APR-15
		Renewal under rule 24 MCR1960	06-MAY-15

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Exploration proposed in teh year 2018-19	No exploration work done, due to no exploration proposal	
1b	Exploration over lease area for geological axis 1 or 2	it was proposed entire potential lease area is to be explored upto G1 level of exploration	entire ppotential lease area has explored up to G1 level of exploration	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Mentioned	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Entire potential lease area has already explored upto G1 level of Exploration
1e	Balance reserve as on 01/04/20	01/04/2015 111-25.67 122-14.85	01/04/2019 111-32.754 211-16.789	
1f	General remarks of inspecting officers on geology, exploration etc			limestone of the lease area belongs to Vindhyan super group of rohtas formation, dark grey in colour, grain size is very fine along with interclated bands of shales.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Pit No 1 named silouti pit	Pit No 1 named Silouti pit	development is very slow in proposed location
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in Top Soil, OB and in mineral	Separate benches prepared in the pit (however due to lack of development work pit was waterlogged)	
2c	Stripping ratio or ore to OB ratio	1:0.14	NIL	
2d	Quantity of topsoil generation in m3	1000 cubic meter	1700 cubic meter	
2e	Quantity of overburden generation in m3	46000 cubic meter	NIL	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			location of development was as per proposal, but lack of development observed in the proposed development pit was water logged

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit proposed for production (Pit No 1)	One pit proposed for production i.e. pit no 1 named silouti pit	
3b	Quantity of ROM mineral production proposed	500000	468 t	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	116140	NIL	

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3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	NIL	
3f	Quantity of sub grade mineral generation.	Not Proposed	NIL	
3g	Grade of sub grade mineral generation	Not Proposed	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed	NA (mine not in operational)	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Propsoed	NIL	
3j	Provision of drilling and blasting in mineral benches	Proposed	NA (mine not in operational )	
3k	Provision of mining machineries in mineral benches	Propsoed	NA (mine not in operational at the time of inspection)	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable	Suitable as per proposal	
3m	Total area covered under excavation/pits	7.128 hectare	3.94 hectare	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.14	NIL	mine not in operational at the time of inspection and development work not doen as per proposal

3o	Total area put in use under different heads at the end of year	51.784	21.782	
3p	Production of ROM mineral during the last five year period as applicable	2015-16 500000 2016-17 500000 2017-18 500000 2018-19 500000	2015-16-263454 2016-17 46680 2017-18 182537 2018-19 468	
3q	General remarks of inspecting officers on method of mining etc.			Mine was not in operational at the time of inspection, pit was water logged, development work not done was per proposal given in the 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 dumping for Top soil, OB and reject proposed	NIL	mine not in operational development work not done achived target for the reportign year
4b	Location of topsoil, OB and mineral reject dumps	OB and mineral reject dump proposed	dumps were proposed in the pit silouti adjacent area	
4c	Number of dumps within lease area and outside of lease area	one	one	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the upl	outside the upl	
4e	Number of active and alive dumps.	one	one	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NIL	NIL	

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4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	prepared 500*2*1m	
4i	Length of Retaining wall or garland drain all along dumps	garland drain proposed	500*2*1	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management			mine not in operational development work not achieved target for the reportign year hence dumps were not as per proposal height

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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 proposed	no area fully extracted for the backfilling	mine not in operational development work not done achived target for the reportign year
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)	proposed for planttaion	not done as per plan	mine not in operational development work not done achived target for the reportign year
5d	Total area fully reclaimed and rehabilitated	1.20	NIL	

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	mine not in operational development work not done achieved target for the reportign 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).	propsoed	Not Submitted	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	0.20	NIL	
6d	No. of saplings planted during the year	1200	NIL	
6e	Cumulative no .of plants	5000	NIL	
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
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not Proposed	NIL
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	0.20	NIL
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.20	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not Proposed	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	as per approved mining plan	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			mine not in operational development work not done achieved target for the reportign year, reclamation and rehabilitation work not done as per proposal

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatched proposed	ROM were dispatched to the captive cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method proposed	mechanical method adopted	
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 proposed to dispatched to the captive cement plant no beneficiasion process proposed

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#### Environment:

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Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	NIL	mine not in operational development work not done achived target for the reportign year
8b	Concurrent use or storage of topsoil	proposed	not doen as per proposal	mine not in operational development work not done achived target for the reportign year
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	NIL	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	NIL no area fully extracted	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per approved mining plan	
8g	Survival rate	90%	NIL	
8h	Water sprinkling on roads to control airborne dust	proposed	NIL	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	needs improvements
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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		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	furnished	S K Sinha MAnager, S K Jain Geologist, D S Pandey Mining Engineer	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	furnished	furnished in AR	
9d	Scrutiny of Annual return on afforestation	furnished	furnished in AR	
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	
9k	Scrutiny of Annual return on mining machineries	furnished	furnished	

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**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 50	10-FEB-20			
MCDR17	Rule 55(1) (3)	10-FEB-20			

**Date :**

**(DEEPAK SHARMA)**

Indian Bureau of Mines