

**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 : **G006**) **ABHISHEK RANJAN GAUTAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : SHRI SAURABH JAIN, GEOLOGIST, SHRI AKHILESH RAI, GEOL
Official with
Designation
- (iv) Date of Inspection : 09-NOV-21
- (v) Prev.inspection date : 23-DEC-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TILOURA (193.252 HA)**
- (b) **Registration NO.** : **IBM/441/2011**
- (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. : 07674276323
E-mail : ajit.ostwal@adityabirla.cor
Phone : 07674277067
- (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

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
		MP review under 17(1) MCR 2016	22-JUL-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	Total 46.72 ha. area under G-1 category & remain 46.525 ha. area under non mineralized
1b	Exploration over lease area for geological axis 1 or 2	proposed to explore the lease area upto G1.	lease area explored upto G1.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Applicable	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Applicable	Not Applicable	
1e	Balance reserve as on 01/04/20		111- 25.67 MioT 121- 14.85 MioT 221- 20.29 MioT 222-11.338 MioT	
1f	General remarks of inspecting officers on geology, exploration etc			The Reserves area established under G-1 category. Drilling is Planned. Vindhyan Super Group, Rohtas Stage, Semri Series.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Central Block pit-Silouti	Central Block pit-Silouti	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	Separate benches prepared in the pit (however due to lack ofdevelopment work pit was waterlogged).	The Development is less than Planned. Violation is pointed out

2c	Stripping ratio or ore to OB ratio	1:0.23	Nil	
2d	Quantity of topsoil generation in m3	13200 M3	Nil	violation pointed out
2e	Quantity of overburden generation in m3	44000 M3	Nil	violation pointed out
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The Development is less than Planned. Violation is pointed out

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed	500000 tons	13942 tons	violation pointed out
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	5000 tons	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil	
3f	Quantity of sub grade mineral generation.	24997	Nil	
3g	Grade of sub grade mineral generation	Between 34-38 % CaO & MgO 5- 4%	Nil	

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.	Mechanised method proposed	Not applicable
3j	Provision of drilling and blasting in mineral benches	Yes	Yes
3k	Provision of mining machineries in mineral benches	Yes	BACK HOE 2.300 CUM 1no Non Electrical TIPPER 16.000 CUM 1no Non Electrical
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	27.097 Ha.	19.062Ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.23	Nil
3o	Total area put in use under different heads at the end of year	40.714 Ha	26.927Ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17 500000 2017-18 500000 2018-19 500000 2019-20 500000 2020-21 500000	2016-17 46680 2017-18 182537 2018-19 468 2019-20 0 2020-21 13942 .94

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
----	---	---

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	development work not done achived target for the reportign year
4b	Location of topsoil, OB and mineral reject dumps	Near Silouti pit	Near Silouti pit	
4c	Number of dumps within lease area and outside of lease area	One dump within lease area	One dump within lease area	
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.	one	one	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Bund/drain	Bund/drain	
4i	Length of Retaining wall or garland drain all along dumps	355MTR*2MTR*1M TR.	355MTR.*2MTR*1MTR	
4j	Number of settling ponds	NIL	NIL	

4k	Specific comments of inspecting officer on waste dump management	Development work not achieved target for the reportign year hence dumps were not as per proposal height
----	--	---

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	
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 plantaion	not done as per plan	development work not done achived target for the reportign year. Violatioon pointed out.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Development work not done achived target for the reportign year

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) .	NIL	NIL	
6c	afforestation done (ha).	0.45 ha	Nil	Violation pointed out
6d	No. of saplings planted during the year	900	Nil	Violation pointed out
6e	Cumulative no .of plants	15000	14225	
6f	Any other method of rehabilitation	Not applicable	Not applicable	
6g	Cost incurred on watch and care during the year	Rs 22500/-	Rs 22500/-	
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 applicable	Not applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	900 plants	Nil	Violatioon pointed out.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.2 Ha.	0.2 Ha.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Found in order	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Development work not done achived target for the reportign year, reclamation and rehabilitation work not done as per proposal

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

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Nil	Development work not done achived target for the reportign year. Violation pointed out.
8b	Concurrent use or storage of topsoil	Proposed	not doen as per proposal	Development work not done achived target for the reportign year. Violation pointed out.
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 (15000 plants)	14225 Plants	
8g	Survival rate	90%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Less plantation observed in mines. needs improvements

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR submitted upto Oct 2021 AR submitted upto 2020-21	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME- D.S. Pandey Geologist- Vishnu Vasu	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 19.06Ha. Backfilling -nil Dump- 5.88 Ha. Infrastructure -0.50Ha.	
9d	Scrutiny of Annual return on afforestation	Nil	Violation pointed out
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Production (in tonne) - 13942.940 Dispatches from mine head (in tonne) - 13942.940 Closing Stock - Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive use of mineral not for sale	
9h	Scrutiny of Annual return on fixed assets	Rs 98.42/- Crores	
9k	Scrutiny of Annual return on mining machineries	BACK HOE 2.300 CUM 1no Non Electrical TIPPER 16.000 CUM 1no Non Electrical	

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	24-NOV-21			
MCDR17	Rule 26(2)	24-NOV-21			
MCDR17	Rule 31(1)	24-NOV-21			
MCDR17	Rule 46(a)	24-NOV-21			

Date :

(ABHISHEK RANJAN GAUTAM)

Indian Bureau of Mines