

Mining Plan Modification REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-66

Mine code : 38MPR35113

- (i) Name of the Inspecting : **SQ24**) **MADHAVRAO SABRE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mining Engineer in charge Shri D.S.
Official with : Pandey Geologist in charge Shri
Designation : Vishnu Vasu
- (iv) Date of Inspection : 04-FEB-23
- (v) Prev.inspection date :

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.co
- Phone : 07674277067
- (f) Police Station :
- (g) First opening date : 18 January 1987
- (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

I/8843/2023

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

I/8843/2023

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	Nil	Nil	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	NA	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	-	-
1e	Balance reserve as on 01/04/20	-	111-32 MT 211- 17 MT	-
1f	General remarks of inspecting officers on geology, exploration etc	Nil	No boreholes/exploration was proposed for current year	-

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Central portion pit	Central portion pit	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes proposed	Seperate benched in top soil and OB maintained.	-
2c	Stripping ratio or ore to OB ratio	1:0.38	1:0.38	-
2d	Quantity of topsoil generation in m3	22164 M3	4751 m3	Violation pointed
2e	Quantity of overburden generation in m3	773880 M3	5863 T	Violation pointed

I/8843/2023

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Yes proposed	Not achieved as per proposal, due to frequent maintenace work in plant .	Violation pointed.
----	---	--------------	--	--------------------

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	-
3b	Quantity of ROM mineral production proposed	499950 T	50074.010 T	-
3c	Recovery of sailable/usable mineral from ROM production	YES proposed	Yes as per proposal.	-
3d	Quantity of mineral reject generation	2000 M3	14320 T	-
3e	Grade of mineral rejects generation and threshold value declared.	CaO- 34% (Min.) and MgO-5% (Max.)	CaO- 34% (Min.) and MgO- 5% (Max.)	-
3f	Quantity of sub grade mineral generation.	24995 T	5000 T	-
3g	Grade of sub grade mineral generation	34- 38 Cao	34- 38 Cao	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	NA	-
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	-

I/8843/2023

3k	Provision of mining machineries in mineral benches	Yes	Yes	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	6 M	-
3m	Total area covered under excavation/pits	21 .847 Ha.	20.0 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.38	1:0.11	-
3o	Total area put in use under different heads at the end of year	40.714 Ha	27.923 Ha.	-
3p	Production of ROM mineral during the last five year period as applicable	2017-18 500000 2018-19 500000 2019-20 500000 2020-21 499950 2021-22 499950	2017-18 500000 182537 2018-19 500000 468 2019-20 500000 0 2020-21 499950 13942.940 2021-22 499950 50074.010	-
3q	General remarks of inspecting officers on method of mining etc.	Mechanised	It is an A category Mine. Mining is done by mechanised means. Benches of 6m height are maintained.	-

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not proposed	Not proposed as top soil produced was already used for plantation.	-
4b	Location of topsoil, OB and mineral reject dumps	-	Na	-
4c	Number of dumps within lease area and outside of lease area	05 dumps	05 dumps	-

I/8843/2023

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	inside the lease	Inside the lease.	-
4e	Number of active and alive dumps.	Nil	Nil	-
4f	Number of dead dumps.	05	05	-
4g	Number of dumps established.	01	01	-
4h	Whether Retaining wall or garland drain all along dumps are there.	yes	yes constructed.	-
4i	Length of Retaining wall or garland drain all along dumps	yes	1320Mtr Graland drain, 320Mtr. bund	-
4j	Number of settling ponds	Not proposed	NA	-
4k	Specific comments of inspecting officer on waste dump management	Yes	Pits are already developed so very less quantity of waste generation is there. Garland drains and bunds are constructed around the dumps	-

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.	Yes	Yes carried out	-
5b	Area under backfilling of mined out area	Nil	Presently nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	yes	Not proposed in reporting year	-
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	-

I/8843/2023

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	Na	-
----	--	-----	----	---

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	Yes, submitted by letter No. MCW/PKU/Mine22/134Dated 30/05/2022	-
6b	Area available for rehabilitation (ha) .	NA	NA	-
6c	afforestation done (ha).	NA	NA	-
6d	No. of saplings planted during the year	900	900	-
6e	Cumulative no .of plants	NA	NA	-
6f	Any other method of rehabilitation	NA	NA	-
6g	Cost incurred on watch and care during the year	-	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	NA	-

I/8843/2023

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	NA	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	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	yes proposed	900 saplings planted	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	yes	1 Ha	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	yes	by afforestation. 900 saplings planted.	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	Submitted	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	yes	900 saplings are planted within the lease.	-

Mineral Conservation:

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

I/8843/2023

7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	Grade wise mineral sorting not done	-
7c	Different grade of mineral sorted out at mines.	NA	NA	-
7d	Any beneficiation process at mines	NA	NA	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	Grade wise sorting is not practiced. ROM is dispatched.	-

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Not proposed in this year	-
8b	Concurrent use or storage of topsoil	Not current year	NA	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	NA	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	being done	-

I/8843/2023

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	being done	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Existing Plantation	At Waste Dump 900Nos of sapling	-
8g	Survival rate	99%	95%	-
8h	Water sprinkling on roads to control airborne dust	yes	being done regularly	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Yes	Plantation has been done, regular sprinkling of water is done on haul roads.	-

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes	submitted	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes given	Mining Engineer in charge Shri D.S. Pandey Geologist in charge Shri Vishnu Vasu	

I/8843/2023

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	i) Already exploited & abandoned by opencast (O/C) mining 0.000 193.252 193.252 (ii) Covered under current (O/C) Workings 0.000 20.000 20.000 Reclaimed/Rehabilitated 0.000 0.000 0.000 Used for waste disposal 0.000 6.038 6.038 Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.500 0.500 Other Purpose (Nil) 0.000 1.135 1.135 Work done under progressive mine closure plan during the year 0.000 0.250 0.250	-
9d	Scrutiny of Annual return on afforestation	Nil	Na	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	yes	14320 T	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NA	ROM Stock (cement grade) used for captive purpose.	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Dispatch from mine : 50074 T Ex. Mine Price - 435.53	-
9h	Scrutiny of Annual return on fixed assets	Yes	Value of Fixed Assets (in Rs) 886521424/-	-
9k	Scrutiny of Annual return on mining machineries	Nil	NA	-

I/8843/2023

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

Date :**(MADHAVRAO SABRE)**

Indian Bureau of Mines