

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

Mining Plan Modification REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-331

Mine code : 38MPR35310

- (i) Name of the Inspecting : **S024**) **MADHAVRAO SABRE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Bharat Gokhru, F Head, Shri A Meshram, Geologist
Official with Designation
- (iv) Date of Inspection : 13-MAY-22
- (v) Prev.inspection date : 26-OCT-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HINAUTI (378.261 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 : HINAUTI, BIHARGANJ,
Taluka : RAMNAGAR
Post office : HINAUTI
Pin Code : 485881
FAX No. : NA
E-mail : ajit.ostwal@adityabirla.co
Phone : 07802- 276701, 276714
- (f) Police Station : RAMNAGAR
- (g) First opening date : 20-OCT-09
- (h) Weekly day of rest : SUN
2. Address for : ULTRA TECH CEMENT LTD.
correspondance : SIDHI CEMENT PLANT,
P.O. BHARATPUR, DIST. SIDHI (M.P.)
3. (a) Lease Number :
- (b) Lease area : **378.261 Ha**
- (c) Period of lease : **50 Years**
- (d) Date of Expiry : **13/08/2057**
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : ULTRATECH CEMENT LIMITED
 SIDHI CEMENT WORKS.VILL.
 MAJHIGAWAN PO BHARATPUR
 DISTT. SIDHI SIDHI MADHYA
 PRADESH
 Phone:
 FAX :

Owner : ULTRA TECH CEMENT LTD.
 UNIT- BIRLA WHITE, D7,
 SHASHI NAGAR JODHPUR
 (RAJASTHAN) 342003 JODHPUR
 RAJASTHAN
 Phone:
 FAX :

Mining Engineer

Name : RAJ KUMAR SINGH, Full Time
 Qualification : DEGREE IN MINING ENG FROM CALCUTTA UNIVE
 Appointment/ : 18-DEC-10
 Termination date

Geologist

Name : SUNIL KR. DWIVEDI., Full Time
 Qualification : M SC GEOLOGIST
 Appointment/ : 14-JUN-10
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	27-NOV-06
		Mining Scheme rule 12 MCDR1988	28-NOV-14
		MP review under 17(1) MCR 2016	24-DEC-18

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	02 Boreholes proposed.	Nil	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	yes	Nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1=376.261 ha unexplored : 2.00 ha G1=376.261 ha Unexplored=2.00 ha	Total area=378.261ha G1=376.261 ha Unexplored=2.00 ha	-
1e	Balance reserve as on 01/04/20	-	111+112+122= 26.799 MnT {221+222} = 40.38 MnT	-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The limestone of Rohtas Stage and the overlying Kaimur sandstone are the only litho units that can be observed on the spurs formed along the hill slopes. The limestone horizon as encountered during exploration is generally grey to dark grey in color and fine grained in nature. It may further be broadly classified into three different types namely, Massive & hard limestone, thin bedded flaggy & soft limestone and Soft & friable limestone.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit 1: E 528641 to 528870 & N 2687672 to 2688130	Pit 1: E 528424 to 528900 & N 2687881 to 2688134	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes proposed, Pit 1: Over burden-2, Ore - 3	Pit 1: Over burden-2, Ore - 3	-
2c	Stripping ratio or ore to OB ratio	1:0.64	1:0.50	-
2d	Quantity of topsoil generation in m3	25305 M3	15090 m3	-
2e	Quantity of overburden generation in m3	614490 M3	158832 m3	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	Pit was developed in proposed area, but less development was done .	-

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 pit	01 Pit	-
3b	Quantity of ROM mineral production proposed	1000000 T	346242 T	Violation pointed out.
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	-
3d	Quantity of mineral reject generation	nIL	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	-
3f	Quantity of sub grade mineral generation.	-	Nil	-

3g	Grade of sub grade mineral generation	Nil	Nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised.	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	NA	-
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	-
3k	Provision of mining machineries in mineral benches	Yes Proposed	0.9M3 Excavator and 25T dumpers	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	-
3m	Total area covered under excavation/pits	4.80 Ha	2.232 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.64	1:0.41	-
3o	Total area put in use under different heads at the end of year	Pit Area- 4.80Ha Top Soil- 0.43Ha Waste Dump- 7.63Ha Haul Road- 0.16Ha Plantation- 1.00 Total = 14.02Ha	Pit Area- 2.232Ha Waste Dump- 0.34Ha Haul Road- 0.22Ha Retaining Wall-0.03Ha Plantation-1.00 Total= 3.822Ha	-

3p	Production of ROM mineral during the last five year period as applicable	2017-18: 1000000 2018-19: 1000000 2019-20: 1000000 2020-21: 1000000 2021-22: 1000000	2017-18: 39476 2018-19: 984747 2019-20: 534371 2020-21: 290204 2021-22: 346242	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	-

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	-
4b	Location of topsoil, OB and mineral reject dumps	Top Soil E529624 to 529695 & N 2687792 to N 2687877 OB E529305 to 529702 & N2687828 to 2688152	OB E 529392 to 529443 & N 2688179 to 2688279	-
4c	Number of dumps within lease area and outside of lease area	4	4	All within lease.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Part within ultimate pit limit-1	Done as per proposal, part within ultimate pit limit-1	-
4e	Number of active and alive dumps.	1	1	-
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.	Along dumps and pits	RW & GD above pits and around existing dump	-
4i	Length of Retaining wall or garland drain all along dumps	RW: 569m GD: 0.52Ha	RW: 200m GD: 0.52Ha	-
4j	Number of settling ponds	Not in proposal	Not in proposal	-
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.	Not in Proposal	Not in Proposal	-
5b	Area under backfilling of mined out area	Not in proposal	Not in Proposal.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes,	Used in plantation work.	-
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	-

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes	-
6b	Area available for rehabilitation (ha) .	Not in proposal	Na	-
6c	afforestation done (ha).	Not in proposed period	Na	-
6d	No. of saplings planted during the year	Not proposed	-	-
6e	Cumulative no .of plants	yes	19397 Nos	-
6f	Any other method of rehabilitation	Not Proposed	Nil	-
6g	Cost incurred on watch and care during the year	Not proposed for reporting year	NA	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not in proposal.	NA	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not in proposal.	-	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not in proposal.	-	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not in proposal.	-	-

6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not in proposal.	-	-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2000 saplings	2000 saplings	-
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	yes 1 Ha	1 Hectare	-
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	By plantation	2000 saplings planted	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes proposed	done regularly, all are under permissible limits.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	2000 Nos. 1.00 Ha. By plantation	2000 Nos. of saplings planted. 1.00 Ha. rehabilitated by plantation.	-

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Dispatch	ROM Dispatch	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not in Proposal	-	-
7c	Different grade of mineral sorted out at mines.	Not in Proposal	Sorting not done in lease.	-

7d	Any beneficiation process at mines	Not in Proposal	Na	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not in Proposal	No sorting, beneficiation activity done in lease area.	-

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	-
8b	Concurrent use or storage of topsoil	concurrent use	Concurrent use.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes for waste	Yes for waste	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	na	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	NA	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline 17397 Nos. cumulative plantation done.	This year :Additional =2000 Nos. Total 19397Nos.	-
8g	Survival rate	80%	80%	-

8h	Water sprinkling on roads to control airborne dust	Yes	Regular water sprinkling on haul roads and static water sprinklers installed at crusher ramp	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	-

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes submitted in time and in conconance.	Monthly returns are in consonance with Annual Return.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge Ramesh Kumar Patel Geologist in charge Om Prakash Tiwari	Yes , present during inspection.	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Already exploited & abandoned by opencast (O/C) mining 0.000 (ii) Covered under current (O/C) Workings19.070 (iii) Reclaimed/Rehabilitated 0.000 (iv) Used for waste disposal 9.890 (v) Occupied by plant, buildings, residential, welfare buildings & roads 8.440 (vi) Other Purpose (Garlan Drain, Settling, Pond) 2.250 (vii) Work done under progressive mine closure plan during the year 0.000	-
9d	Scrutiny of Annual return on afforestation	Given	2000 saplings	-

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(LIMESTONE) Grades Opening stock at mine head (in tonne) Production (in tonne) Despatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) LD 0.000 0.000 0.000 0.000 0.00 (b) SMS 0.000 0.000 0.000 0.000 0.000 0.00 (c) Chemical 0.000 0.000 0.000 0.000 0.000 0.00 (d) BF 0.000 0.000 0.000 0.000 0.000 0.00 (e) Cement 0.000 346242.000 346242.000 0.000 497.48	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes, Sale Value- Nil	EX Mine price 497.48.	
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets (in .Rs) 2397789171	

9k	Scrutiny of Annual return on mining machineries	Yes	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) SHOVEL (HYDRAULIC) 3.500 CUM 2 Non Electrical Opencast SHOVEL (HYDRAULIC) 2.100 CUM 2 Non Electrical Opencast DUMPER 25.000 TONNE 8 Non Electrical Opencast DOZER 301.000 HP 1 Non Electrical Opencast WATER TANKER 12000.000 LITRE 1 Non Electrical Opencast EXPLOSIVE VAN 7.000 TONNE 1 Non Electrical Opencast ROCK DRILL (NONELEC.) 100.000 MM 1 Non Electrical Opencast MOTOR	-
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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)	30-MAY-22			

Date :

(MADHAVRAO SABRE)

Indian Bureau of Mines