

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **K006**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Shri P K Upadhyay (Agent), Y K Dhurandhar (Mine Mana
Official with
Designation
- (iv) Date of Inspection : 26-OCT-20
- (v) Prev.inspection date :

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.cor
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 :
(c) Period of lease :
(d) Date of Expiry :
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	:	Fresh under rule 22 MCR1960	27-NOV-06
Plan/Scheme of Mining	:	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	NIL	NIL	G1-376.261Ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	376.261Ha area has been explored in G1 axis as per provided records.	
1e	Balance reserve as on 01/04/20		27.47 MnT	
1f	General remarks of inspecting officers on geology, exploration etc			Almost complete lease area explored under the G1 category of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E529520 to E530107 & N2687940 to N2688400	E529520 to E530107 & N2687940 to N2688400	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil-0, Over burden-2, Ore -3	Top soil-0, burden-2,	Over Ore -3
2c	Stripping ratio or ore to OB ratio	1: 0.63	1 : 0.49	
2d	Quantity of topsoil generation in m3	33528 m3	35640 m3	

2e	Quantity of overburden generation in m3	597453 CuM	495250 CuM	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development of pit has been carried out as per approved document.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE	
3b	Quantity of ROM mineral production proposed	1000000 TONNES	534371 TONNES	
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	NA	
3d	Quantity of mineral reject generation	No proposed	No Mineral rejects found.	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA
3j	Provision of drilling and blasting in mineral benches	YES	YES
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	YES
3m	Total area covered under excavation/pits	16.489 Hect	16.835 Hect
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.59	1 : 0.49
3o	Total area put in use under different heads at the end of year	55.09 Hect	57.00 Hect
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 978100 2016-17: 1000000 2017-18: 1000000 2018-19: 1000000 2019-20 1000000	2015-16: 249241 2016-17: 38285 2017-18: 39476 2018-19: 984747 2019-20: 534371

3q	General remarks of inspecting officers on method of mining etc.	Mechanised Opencast method of mining is adopted for the mine development and excavation of leased mineral which suitable and as per approved document.
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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)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	Location of temp. OB dump E529340 to E529598 & N2687755 to N2688171	Location of temp. OB dump E530255 to E530414 & N2688160 to N 2688420	
4c	Number of dumps within lease area and outside of lease area	Temporary dumping	One temporary active dumps within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	with in UPL	
4e	Number of active and alive dumps.	One	One	
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	Garland Drain constructed along pits	

4i	Length of Retaining wall or garland drain all along dumps	GD: 1135m	GD: 734m	
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management			Temporary dumping of the OB has been done in the leased area. Garland drain has been constructed around the dump.

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.	Nil	Nil	
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)	Yes	Yes	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area not matured for backfilling and reclamation.

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) .	NIL	NIL
6c	afforestation done (ha).	NIL	NIL
6d	No. of saplings planted during the year	NIL	NIL
6e	Cumulative no .of plants	NIL	NIL
6f	Any other method of rehabilitation	NOT PROPOSED	NA
6g	Cost incurred on watch and care during the year	NIL	NIL
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	NIL	NIL

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.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2000 NOS. SAPLINGS	2000 NOS. SAPLINGS	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	One Hect. area by plantation	One Hect area by plantation	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	By plantation	By plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance is being carried out in the waste land due to unavailability of land in the mined out area.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch to captive cement plant.	ROM mineral dispatch to captive cement plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA
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		Complete ROM mineral above threshold limit is being dispatched to captive cement plant as per provided records.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal of topsoil	Separate removal of topsoil	
8b	Concurrent use or storage of topsoil	No stacking, directly used in planation work	No stacking, directly used in planation work	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	

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)	Nil	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation in the waste land	Plantation done in the waste land.	
8g	Survival rate	85%	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			Approx 2000 Nos. of saplings planted in 01 Hect. waste land. The barrier zone is being cover by plantation.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly Returns & Annual Returns for 2019-20 submitted in time.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Manager: Yugal Kishore Dhurandhar Geologist: Om Prakash Tiwari Mining Engineer : Akash Chandrakar
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Land use pattern as per Annual Returns
9d	Scrutiny of Annual return on afforestation	Yes	Afforestation as per Mining Plan and Annual returns
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	NA
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	As per proposal
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	As per AR
9h	Scrutiny of Annual return on fixed assets	Yes	As per AR
9k	Scrutiny of Annual return on mining machineries	Yes	As per AR

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

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines