

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/SATNA/LST-375

**Mine code :** 38MPR35349

- (i) Name of the Inspecting : **SQ23** ) **SANDEEP KUMAR SINGH**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 13-FEB-21
- (v) Prev.inspection date : 30-MAY-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **HINAUTI EXTN. MINE 258.86**
- (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  
Taluka : RAM NAGAR  
Post office : HINAUTI  
Pin Code : 485881  
FAX No. : 09285-108963  
E-mail : mukesh.k.kumar@adityabirla  
Phone : 09285-108963 Ext. 416
- (f) Police Station : Ramnagar
- (g) First opening date : 21-JAN-19
- (h) Weekly day of rest : SUN
2. Address for :  
correspondance
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 : M/S ULTRATECH CEMENT LIMITED  
NAYAGAON KANKA KHOR  
VILLAGES KHOR POST JAWAD  
TAHSIL NIMACH MADHYA  
PRADESH  
Phone:07420230109  
FAX :07420235524

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

6. Date of approval of Mining : MP modif under 17(3) MCR 2016 05-JUL-19  
Plan/Scheme of Mining

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	--	--	
1b	Exploration over lease area for geological axis 1 or 2	13 BH	3 BH	11 nos less hole done.violation issued.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	Synergy Geotech Pvt.Ltd.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	G1/G2: total:258.867 Ha. G1-98.680 Ha. G2- 14.110 Ha. Unexplored area: 146.007 Ha.	
1e	Balance reserve as on 01/04/20	-	12.612 Mio Tone	

1f	General remarks of inspecting officers on geology, exploration etc	The limestone of Hinauti Extension lease area belongs to Rohtas Stage of Semri Series of Lower Vindhyan System of Indian Stratigraphy. Ghaghar quartzite overlies the Rohtas Stage that forms a part of the Kaimur Hills. Semri Series overlies Glauconite Beds of Son Valley area. The regional strike of limestone deposit is ENE - WSW with a northerly dip varying from 10° to 15° into the Hills. There is still 146 hectare area to be explored. 11 nos boreholes for year 19-20 have not been done.
----	--	--

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	E 529383 to 529751 & N 2688500 to 2688750	E 529383 to 529751 & N 2688500 to 2688740	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Overburden-4 & Limestone -7	Overburden -4 & Limestone -7	Separate benches for OB
2c	Stripping ratio or ore to OB ratio	1:0.33	1:0.85	

2d	Quantity of topsoil generation in m3	nil	nil	
2e	Quantity of overburden generation in m3	330000	265850	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			It is hill deposit being worked from some where below top of hill along slope. benches of 8-9 metres ht with 12-13 mtr width have been formed. 11 benches can be seen.

---

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	Proposed 1000000 MT	310715 MT	
3c	Recovery of sailable/usable mineral from ROM production	Nil	Nil	
3d	Quantity of mineral reject generation	Nil	Nil	No Mineral rejects found.
3e	Grade of mineral rejects generation and threshold value declared.	Na	NA	
3f	Quantity of sub grade mineral generation.	Nil	Nil	No sub grades mineral generation
3g	Grade of sub grade mineral generation	N/A	N/A	

---

3h	Manual / Mechanised method adopted for segregating from ROM	N/A	N/A	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NO	N/A	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	4 inch drill machine used
3k	Provision of mining machineries in mineral benches	Yes	Yes	Yes, 1.9M3 capacity 2 nos.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes, 8-9 mtr benches are made.	
3m	Total area covered under excavation/pits	12.84hec	11.059 hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.33	1:0.85	
3o	Total area put in use under different heads at the end of year	25.09 hect	14.231hect	Pit, Haul road & Dump area.
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 500000 2017-18: 500000 2018-19: 500000 2019-20: 1000000	2016-17: 0 2017-18: 37976 2018-19: 489750 *2019-20: 310715	production is very less than planned in 19-20. benches are well developed in hill .

3q General remarks of inspecting officers on method of mining etc.

Mine has been developed by benches in waste /Minerals.producti on and development is very less than planned.

### 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	Separate dumping of OB. No separate stacking of topsoil / mineral reject
4b	Location of topsoil, OB and mineral reject dumps	E 529162 to 529322 & N 2688540 to 2688790	E 529162 to 529322 & N 2688540 to 2688790	OB dumping within limit
4c	Number of dumps within lease area and outside of lease area	Within Lease : 01	Within Lease: 01	No dump outside lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	All dumps are temporary
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	0	0	
4g	Number of dumps established.	1	1	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	drain toebund seen in less area	violation issued.
4i	Length of Retaining wall or garland drain all along dumps	975m	200m	Garland drain
4j	Number of settling ponds	Not proposed	Nil	

4k	Specific comments of inspecting officer on waste dump management			Drain and toe bund was not observed at bottom of entire dump needed to arrest wash off. Violation issued.
----	--	--	--	---

---

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.	-	-	No backfilling proposed
5b	Area under backfilling of mined out area	-	-	No backfilling proposed
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	-	-	Top-Soil used only for plantation, since generation quantity is very less
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			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	

---

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	Nil	Nil
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	Not in proposal	Not in proposal
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not in proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not in proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not in proposal	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not in proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2000 Nos. 1.0 Ha. Plantation	3000 Nos. 1.30 Ha. Plantation	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	2000 Nos. 1.0 Ha. Plantation	3000 Nos. 1.30 Ha. Plantation	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	2000 Nos. 1.0 Ha. Plantation	3000 Nos. 1.30 Ha. Plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	monitoring proposed.	monitoring is done.	with in limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Only barrier plantation is proposed which is done.plants are maintained by fencing and watering.

---

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	No grade wise sorting

---

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	N/A	N/A	
7c	Different grade of mineral sorted out at mines.	N/A	N/A	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM Mineral sent to factory crusher.

---

**Environment:**

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8b	Concurrent use or storage of topsoil	No Top Soil	No Top Soil	Not stacked separately, directly used for plantation due to less quantity generation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	Separate dumps of OB
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	-	-	Will be used in future for Backfilling

---

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)	Nil	Nil, 3000 planted this year.	
8g	Survival rate	Nil	>80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Water sprinkling being done for arresting dust
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Monitoring is done for environment parameters. Water sprinkling is done.

---

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns			Monthly Returns till December-2020 & Annual Returns for 2019-20 submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager			Mines Manager: Yugal Kishore Dhurandhar Geologist: Om Prakash Tiwari Mining Engineer : G. Satya Sundar Kumar

---

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.			Land use pattern as per Annual return. Pit: 11.059 ha. Dump: 2.472 ha. Roads: 0.700 ha
9d	Scrutiny of Annual return on afforestation	2000 saplings	3000 saplings planted	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	N/A	N/A	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No Stock	No Stock	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value,- 0 Ex-Mine price - 247.70 Production costs - 247.70	Ex-Mine Price & Cost of Production is same in case of captive lease	
		Captive Mine		
9h	Scrutiny of Annual return on fixed assets	Fixed assets as per Annual Return	2294262424 For all 7 mining leases	
9k	Scrutiny of Annual return on mining machineries			Type of machinery Capacity of each unit No.of units BACK HOE 1.2 Cum 1 BACK HOE 2.1 Cum 1 DUMPER 25.0 Tone 13 ROCK DRILL (NONELEC.) 4.00 MM 1 DOZER 275.000 HP 1 WATER TANKER 12000.000 LITRE 1 ELEC. MOTOR 7.000 HP 1

---

**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)	29-APR-21			

**Date :**

**(SANDEEP KUMAR SINGH)**

Indian Bureau of Mines