

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

Check up inspection REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-331

Mine code : 38MPR35310

- (i) Name of the Inspecting : **NQ07**) **PUKHRAJ NENIVAL**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri S K Sinha, Sr VP, Shri Ashish Meshram, Geologis
Official with
Designation
- (iv) Date of Inspection : 20-APR-22
- (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	02 nos	Nil	Violation pointed out for same.
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	G1=376.261 ha Unexplored = 2.00 ha	Total area = 378.261 ha G1=376.261 ha Unexplored = 2.00 ha	
1e	Balance reserve as on 01/04/20		111+112+122 = 26.799 Million tone 221+222= 40.38 million tone	
1f	General remarks of inspecting officers on geology, exploration etc			The entire area is explored in G1 except an area of approx 2 ha, 02 Bore hole are planned for same in FY21-22 as per plan.

Development :

Sl.No.	Item	Proposals	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)	Pit -1: Over burden -2 Mineral -3	Pit -1: Over burden -2 Mineral -3	
2c	Stripping ratio or ore to OB ratio	1:0.64	1:0.50	

2d	Quantity of topsoil generation in m3	25305 cubic meter	15090 cubic meter	Violation pointed out for same.
2e	Quantity of overburden generation in m3	614490 cubic meter	158832 cubic meter	Violation pointed out for same.
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. Voilation for rule 11(1) is pointed out for less development & production.

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	1000000 Tone	346242 Tone	It was proposed to produce 1000000 metric tons of Limestone in the year 2021-22 but only 346242 tons production is achieved. Violation pointed out for same.
3c	Recovery of sailable/usable mineral from ROM production	Nil	Nil	
3d	Quantity of mineral reject generation	No Mineral rejects proposed	No Mineral rejects found as per records.	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Nil	

3g	Grade of sub grade mineral generation	Not applicable	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Not applicable	Not applicable
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not applicable
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	4.80 ha	2.232 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.61	1:0.46
3o	Total area put in use under different heads at the end of year	Pit area - 4.80 ha Top soil dump - 0.43 ha Waste dump - 7.63 ha haul road - 0.16 ha Plantation - 1.0 ha Total 14.02 ha	Pit area - 2.232 ha Waste dump - 0.34 ha haul road - 0.22 ha Retaining wall - 0.03 ha Plantation - 1.0 ha Total -3.822 ha

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
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3q	General remarks of inspecting officers on method of mining etc.		It was proposed to produce 1000000 metric tons of Limestone in the year 2021-22 but only 346242 tons production is achieved. Violation pointed out for same.
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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	Top soil - E 29624 to 529695 & N 2687792 to N 2687877 OB - E 529305 to 529702 & N 2687828 to 2688125	OB - E 529392 to 529443 & N 2688179 to 2688279	
4c	Number of dumps within lease area and outside of lease area	04	04	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Part within UPL- 1	Part within UPL- 1	
4e	Number of active and alive dumps.	01	01	

4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	03	03	
4h	Whether Retaining wall or garland drain all along dumps are there.	Along dumps & Pit	RW & GD above pits and around existing dump	
4i	Length of Retaining wall or garland drain all along dumps	RW - 569 m GD - 0.52 ha	RW - 200 m GD - 0.52 ha	
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management			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.	Full extraction	Full extraction	
5b	Area under backfilling of mined out area	Not proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil to be used for plantation	Top-Soil used for plantation	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No area matured for backfilling.
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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	The yearly report in respect of rule 26(2) of MCDR 2017 has been submitted for the year 2020-21.	
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	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.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2000 nos 1 ha	2000 nos 1 ha
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 Ha	1.0 Ha
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	under permissible limits	within permissible limits

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The yearly report in respect of rule 26(2) of MCDR 2017 has been submitted for the year 2020-21.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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.	Not applicable	Not applicable	
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	
7d	Any beneficiation process at mines	Not proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM directly dispatched to captive plant as per provided records.

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	Yes	Not stacked separately, directly used for plantation as per provided information	
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	Yes	Area not matured for backfilling as per provided information.	
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)	17397 nos.	Plantation done in the waste land. additional 2000 nos.	
8g	Survival rate	80 % approx.	82%	
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			Overall mine cleanliness is good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly Returns till March 2021 & Annual Returns for 2020-21 submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of the Mining Engineer, Geologist and Manager Manager: Surendra Nath Tiwari Geologist: Om Prakash Tiwari M.E: Ramesh Kumar Patel Gajbhiye
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit area - 2.232 ha Waste dump - 0.34 ha haul road - 0.22 ha Retaining wall - 0.03 ha Plantation - 1.0 ha Total -3.822 ha
9d	Scrutiny of Annual return on afforestation	2000 Nos. Afforestation done in waste land.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral rejects as per AR
9f	Scrutiny of Annual return on ROM stock and/or graded ore	As per proposal
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-Mine Price & Cost of Production is same in case of captive lease
9h	Scrutiny of Annual return on fixed assets	Fixed assets as per Annual Returns for all seven leases Value of fixed assets: Rs. 2233700163

9k	Scrutiny of Annual return on mining machineries	Type of machinery Capacity of each unit No.of units SHOVEL (HYDRAULIC) 0.9 Cum 2 TIPPER 25.0 Tone 1 Dozer 301.00 HP 1 ROCK DRILL (NONELEC.) 152.0 MM 1 Motor Grader 180.000 HP 1 WATER TANKER 12000.00 LITRE 1 EXPLOSIVE VAN 5.000 t 1
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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)	05-MAY-22			
MCDR17	Rule 27(1)	05-MAY-22			
MCDR17	Rule 45(7) (a)	05-MAY-22			
MCDR17	Rule 55(1) (1)	05-MAY-22			

Date :

(PUKHRAJ NENIVAL)

Indian Bureau of Mines