

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/SATNA/LST-331

Mine code : 38MPR35310

- (i) Name of the Inspecting : **SQ23**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Ashish Meshram (Manager-Geology), Shri Sandeep S
Official with
Designation
- (iv) Date of Inspection : 02-SEP-21
- (v) Prev.inspection date : 23-NOV-19

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	Not in Proposal	Not in Proposal	
1b	Exploration over lease area for geological axis 1 or 2	Not in Proposal	Not in Proposal	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1=376.261 ha Unexplored=2.00 ha	Total area=378.261ha G1=376.261 ha Unexplored=2.00 ha	Additional 02 nos. BH proposed in FY 2021-22.
1e	Balance reserve as on 01/04/20	-	111 - 27.149 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 528372 to 528681 & N 2687772 to 2688079	Pit 1: E 528772 to 528870 & N 268796 to 2688140	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Pit 1: Top soil-1, Over burden-2, Ore - 4	Pit 1: Top soil-1, Over burden-2, Ore - 4	To separate high MgO reject at some section.
2c	Stripping ratio or ore to OB ratio	1:0.35	1:0.51	
2d	Quantity of topsoil generation in m3	9869	5700	
2e	Quantity of overburden generation in m3	349276 M3	146754 M3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The waste benches / Top soil is visible. Mineral Benches are water logged.violation is pointed out for achieving very low production and developemnt volumes.

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	290204	Less Production
3c	Recovery of sailable/usable mineral from ROM production	Nil	Nil	ROM sent to crusher.

3d	Quantity of mineral reject generation	No Mineral rejects found.	No Mineral rejects found.	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	No Mineral sub grades	No Mineral sub grades	
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.	N/A	N/A	
3j	Provision of drilling and blasting in mineral benches	Proposed	Proposed	0.9M3 Excavator and 25T dumpers
3k	Provision of mining machineries in mineral benches	Proposed	Proposed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Yes suitable
3m	Total area covered under excavation/pits	22.00 Ha	18.720 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.35	1:0.51	T:M3

3o	Total area put in use under different heads at the end of year	64.47 Ha	41.16 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 1000000 2017-18: 1000000 2018-19: 1000000 2019-20: 1000000 2020-21: 1000000	2016-17: 38285 2017-18: 39476 2018-19: 984747 2019-20: 534371 2020-21: 290204	RMP is from 19-20 to 23-24. It is modified from 20- 21 to 23-24.
3q	General remarks of inspecting officers on method of mining etc.			Modification is done due to change in working area / land issue.violation is pointed out for achieving very low production and development.

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	Only separate OB dumping
4b	Location of topsoil, OB and mineral reject dumps	E 529232 to 529547 & N 2688007 to N 2688271	E 528303 to 528391 & N 268770 to 2687761	OB Dump Location, & top soil stored.
4c	Number of dumps within lease area and outside of lease area	3	3	Active dump within the lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Part within ultimate pit limit-1	Part within ultimate pit limit-1	

4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	02	02	
4g	Number of dumps established.	03	03	
4h	Whether Retaining wall or garland drain all along dumps are there.	Along dumps and pits	RW & GD above pits and around existing dump	Dump area is less and work is continue.
4i	Length of Retaining wall or garland drain all along dumps	RW: 569 GD: 866	RW: 200m GD: 850m (50m Stone Pitched)	Maintained
4j	Number of settling ponds	Not in proposed	1 (90*1*2)	
4k	Specific comments of inspecting officer on waste dump management			Retaining wall and garland drain is made and maintained. Dumping area is less.violation pointed out for deposition of unconsolidated material along asphalt road which was not as per plan and had chance of getting washed away.

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	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.			No area is mature for backfilling. No Proposal.

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	PMCP copy
6b	Area available for rehabilitation (ha) .	Not proposed for mined out benches	Nil	No Proposal
6c	afforestation done (ha).	Not proposed for mined out benches	Nil	No Proposal
6d	No. of saplings planted during the year	Not proposed for mined out benches	Nil	No Proposal
6e	Cumulative no .of plants	17397.0	17397.0	
6f	Any other method of rehabilitation	Not proposed for mined out benches	Nil	No Proposal for mined out benches.
6g	Cost incurred on watch and care during the year	Not proposed for mined out benches	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not in proposal.	Not in proposal.	No area is matured for backfilling.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not in Proposal	Not in Proposal	No area is matured for backfilling.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not in Proposal	Not in Proposal	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not in Proposal	Not in Proposal	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not in Proposal	Not in Proposal	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2000 Nos.	2000 Nos.	Plantation on Non mineralized area.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.00 Ha.	1.00 Ha.	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation	By plantation	Plantation on Non mineralized area.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Within Permissible limits	Within Permissible limits	Quarterly basis
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			

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.	ROM Dispatch	Nil	
7c	Different grade of mineral sorted out at mines.	No Proposal	N/A	
7d	Any beneficiation process at mines .	No Proposal	N/A	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM cement grade limestone is mines and sent to crusher in the Factory are, situated at the distance of 6KM.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	Concurrent
8b	Concurrent use or storage of topsoil	Store and use.	Store and use.	Stacking and used in planation work.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes for waste	As per proposal Made for waste	Waste Dump
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Not Proposed	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed in the plan period.	Not Proposed	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline 15397 Nos. Additional =2000 Nos.	Additional =2000 Nos.	
8g	Survival rate	80%	82%	
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			Plantation is done in barrier zone for green belt.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns till July-2021 & Annual Returns for 2020-21 submitted		Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of the Mining Engineer, Geologist and Manager M.E: Akash Chandrakar Geologist: Om Prakash Tiwari Manager: Ramesh Patel		Submitted
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit area- 18.270 ha Dump area- 9.55 Infrastructure - 8.44 ha Raod , drain- 2.25 ha		Within FA limit.
9d	Scrutiny of Annual return on afforestation	2000 Nos./ 82% survival		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No stock		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: 0 (Captive use) Ex-Mine price: Rs. 451.33/- Production cost: Rs. 451.33/-	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	given

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)	13-OCT-21	06-DEC-21				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines