

**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 : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 30-MAY-19
- (v) Prev.inspection date :

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 :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	in the reporting year 2019-20 18 nos of borehole were proposed to drill	only 03 nos of borehole were till the date of inspection	
1b	Exploration over lease area for geological axis 1 or 2	detailed exploration was done on 98.860 hect- G1, G2- 14.110, G3- Nil, 13.789 hect Non Mineralised, 146.077- unexplored area	G1-98.860 G2-14.110 G3- Nil unexplored 146.077	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	lessee himself drilling division of UTCL	lessee himself drilling division of UTCL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1-98.860 G2-14.110 G3- Nil unexplored 146.077	unexplored 146.077 hect area needs to explored upto G1 level	
1e	Balance reserve as on 01/04/20	as on 01.04.2019 111-12.923 221+222=11.00 1	as on 01.04.2019 111-12.923 221+222=11.001	
1f	General remarks of inspecting officers on geology, exploration etc			Geologically the lease area belongs to vindhyan super group of rock, exploration was not carried out as per the proposal

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Pit -1, E529382 to E529751 and N2688497 to N2688752	Pit-1, E529383 to E529751 to N268840 to N2688745	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	Separate benches were maintained in the top soil and in the mineral limestone	
2c	Stripping ratio or ore to OB ratio	1:0.52	1:1.36	
2d	Quantity of topsoil generation in m3	Not proposed	Nil	
2e	Quantity of overburden generation in m3	528001.6	425360	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development was in teh proposed location with slower rate

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit-1	Sinlge Pit-1	
3b	Quantity of ROM mineral production proposed	100000	310715	
3c	Recovery of sailable/usable mineral from ROM production	100%	ROM is being used in captive cement plant	
3d	Quantity of mineral reject generation	Not Proposed	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil
3f	Quantity of sub grade mineral generation.	Not Proposed	Entire ROM is used in captive cement plant
3g	Grade of sub grade mineral generation	Not Proposed	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical Method Proposed	Screeners are in use for segregation
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil
3j	Provision of drilling and blasting in mineral benches	Proposed	As per approved mining plan
3k	Provision of mining machineries in mineral benches	Proposed	HEMM is being used in mineral benches for excavation and transportation
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	suitable	as per approved mining plan suitable
3m	Total area covered under excavation/pits	12.84 hect	10.48 hect
3n	Ore to OB ratio for the pit/mine during the year.	1:0.56	1:1.36
3o	Total area put in use under different heads at the end of year	29.00	26.54 hect

3p	Production of ROM mineral during the last five year period as applicable	2016-17=250000 2017-18=400000 2018-19=500000 2019-20=1000000	2016-17=Nil 2017-18=37976 2018-19=489750 2019-20=310715	units in tonnes
3q	General remarks of inspecting officers on method of mining etc.			HEMM is being used in mineral benches for excavation and transportation, drilling and blasting being done.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposed	waste dump in the western side of the pit-1	
4b	Location of topsoil, OB and mineral reject dumps	Not Proposed	No mineral reject generated during the reporting year, ROM is being used in cement plant, soil is being used in plantation	
4c	Number of dumps within lease area and outside of lease area	one	one waste dump	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the UPL	outside the UPL	
4e	Number of active and alive dumps.	One	One waste dump	
4f	Number of dead dumps.	Not Proposed	Nil	
4g	Number of dumps established.	Not Proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	250x1x1 length retaining wall prepared all around the dump	

4i	Length of Retaining wall or garland drain all along dumps	proposed	250x1x1 length reaining wall prepared all around the dump	
4j	Number of settling ponds	one	one including other ML also	
4k	Specific comments of inspecting officer on waste dump management			retainign wall prepared all around the waste 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 of the mineral proposed	full extrcation of the mineral is under process upto the UPD	
5b	Area under backfilling of mined out area	Not Proposed	No area mature enough for backfilling	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed	generated soil is being used in plantation over barrier zone and in adjacent ML	
5d	Total area fully reclaimed and rehabilitated	not proposed	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling is not being done yet as the ful extrcation of mineral under process

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).	proposed	submitted	
6b	Area available for rehabilitation (ha) .	not proposed	nil	
6c	afforestation done (ha).	1.0 hect	1.30 hect	
6d	No. of saplings planted during the year	2000 nos	3000 nos	
6e	Cumulative no .of plants	7500 nos	6540 nos	
6f	Any other method of rehabilitation	not proposed	nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Backfilling not started yet as area is not mature enough for the activity

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed	ROM is being dispatched to captice cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	screenrs are being used	
7c	Different grade of mineral sorted out at mines.	Not Proposed	Nil	

7d	Any beneficiation process at mines .	Not Proposed	only screening is being done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			no additional method used, ROM is being used in captive cement plant

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	in plantation	
8b	Concurrent use or storage of topsoil	proposed	in plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	separate dumping is being done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	as and when area mature	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per approved mining plan	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per approved mining plan	
8g	Survival rate	90%	70-80%	
8h	Water sprinkling on roads to control airborne dust	proposed	water sprinklers are used in mine roads	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			needs improvements

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	MR Submitted upto OCT 2021 AR submitted 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Furnished	Manager Yugal Kishor Dhurandhar Mining Engineer in charge Yugal Kishor Dhurandhar Geologist in charge Om Prakash Tiwari	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	<p>Already exploited & abandoned by opencast (O/C) mining 7.847 0.000 7.847</p> <p>(ii) Covered under current (O/C) Workings 3.212 0.000 3.212</p> <p>(iii) Reclaimed/Rehabilitated 0.000 0.000 0.000</p> <p>(iv) Used for waste disposal 2.472 0.000 2.472</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.000 0.000</p> <p>(vi) Other Purpose (Roads) 0.000 0.700 0.700</p> <p>(vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000</p>
9d	Scrutiny of Annual return on afforestation	furnished	<p>Number of trees planted during the year</p> <p>(a) Within lease area (b) Outside lease area</p> <p>(i) Number of trees planted during the year 3000 0</p> <p>(ii) Survival rate in percentage 85.00 0</p>

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	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 0.00 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 0.000 0.000 0.000 0.000 0.00 (e) Cement 0.000 310715.000 310715.000 0.000 246.88
9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnished	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 310715.000 0.000 (b) Underground Workings 0.000 0.000 0.000 (c) Dump Workings 0.000 0.000 0.000
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Furnished	Ex mine price 246.88 INR Cost of Production 246.88 INR
9h	Scrutiny of Annual return on fixed assets	Furnished	value of Fixed Assets (in INR) 2331456930 for adjacent ML also

9k	Scrutiny of Annual return on mining machineries	furnished	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 1.200 CUM 1 Non Electrical Opencast BACK HOE 2.100 CUM 1 Non Electrical Opencast DUMPER 25.000 TONNE 13 Non Electrical Opencast ROCK DRILL (NON-ELEC.) 4.000 MM 1 Non Electrical Opencast DOZER 275.000 HP 1 Non Electrical Opencast WATER TANKER 12000.000 LITRE 1 Non Electrical Opencast ELEC. MOTOR 7.000 HP 1 Non Electrical Opencast
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed				Show couse position			
Rule NO.		Issued on	Compliance on	Rule NO.		Issued on	Compliance on
MCDR17	Rule 11(1)	24-JUN-19	18-SEP-19				

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines