

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Harudi-Kharai Limestone Mine
2A	Inspecting officer with date	G.Ram, Sr.ACOM, 13/2/2019
2B	Accompanying official	Sh. Rajesh Thakre, Mines Manager
3	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total area-659-00-00 Ha, Govt. Waste Land -601.78-00 Ha, Private Land-57.22-00 Ha, Forest area-Nil
4	Mine code & IBM Registration Number under rule 45 of MCDR, 17	<b>38GUJ10008 &amp; IBM/720/2011 (4601)</b>
5	Name of the lessee, Address, phone, email and fax number	UltraTech Cement Ltd,Unit: Sewagram Cement Works, Village – Vayor, Taluk – Abdasa, Dist – Kutch, Gujarat – 370511,Phone no: +91-2831-279604E-mail: <a href="mailto:vivek.uplanchiwar@adityabirla.com">vivek.uplanchiwar@adityabirla.com</a> , Fax no-2831-279279
6	Village	Harudi & Kharai
7	Taluka/Mandal	Lakhpat
8	District	Kutch-Bhuj
9	Pin code	370511
10	State	Gujarat
11	Post office	Vayor
12	Nearest police station	Baranda
13	Nearest Railway station	Bhuj
14	Date of Grant of Mining Lease	07-07-2006
15	Date of Execution	03-10-2006
16	Date of opening of Mine	18-06-2009
17	Date of first Renewal, if applicable and its period & expiry	Not applicable
18	Date of second Renewal, period & expiry	Not applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and <b>date of appointment</b>	Mr. Kailash Chandra Jhanwar, Ahura Center, A - Wing 1st Floor, Mahakali Caves Road, Andheri (E), Mumbai, Maharashtra- 400093, <b>19/10/2018</b>
21	Name of the Mine Agent, Address, phone, email, fax & date of appointment	Shri Vivek Uplanchiwar, Phone/Fax 02831-279200/ 279279, e-mail : <a href="mailto:vivek.uplanchiwar@adityabirla.com">vivek.uplanchiwar@adityabirla.com</a> , <b>01-07-2016</b>
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Rajesh Thakare, Phone -2831-279625, Fax no: +91-2831-279279 E-mail: <a href="mailto:rajesh.thakare@adityabirla.com">rajesh.thakare@adityabirla.com</a> , <b>19/03/2018</b>
23	Name of the ME, Qua. & Exp., Address, phone , email, fax, date of appointment	Shri Hitesh Patel- BE Mining , <b>30-06-2018</b> Sachin Sharma: MSc Geology & > 10 year experience. <b>16-04-18</b>
24	Whether Geologist & Mining Engineer appointed in mines satisfy the rule 42, 43 & 44 carrying out their duties.	Yes- As above
25	Date of Approval of Mining Plan /Modified Mining Plan with five-year period and specific condition in approval letter, if any.	08/07/1999 vide letter no682(23)(935)/99 (MCCM) (N) UDP for
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Date of approval-682(23)/774/11-MDRD-N/GNR/ Dated-02-03-2017 for the period of 2017-18 to 2021-22.
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining (O/C, U/G)	Opencast
29	Category (FM, Others or Manual)	Fully Mechanized
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

**1.0 Exploration**

SN	Item	Proposals 2017-18 & 2018-19	Actual work	Remarks
1a	Backlog of previous year	It was proposed to drill 21 core boreholes in previous plan period as earmarked in North block-19 & South block-02	Lessee has carried out the 77core boreholes in previous plan period	Exploration work has been carried out on higher side
1b	Exploration over lease area for Geological axis 1 or 2.	659.0Ha	G-1:437 Ha G-2:132 Ha G-3 : 90 Ha	Remaining 90Ha lease area will be explored in G1 & G2 level in present plan period.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	-	Synergy GeoTech Private Limited & BK Diamond	21.60 Lakhs from 14-15 to 16-17
1d	Balance area to be explored to bring Geological axis in 1 or 2	It was proposed to drill 47 holes covering 90 ha area towards northeast during the period 17-18 to 19-20 in plan period.		Lessee has been taken initiatives / approvals & accordingly work order given to BK Diamond for proposed exploration work up to 2019-20.
1e	Balance reserves as on 01.04.2018 (111, 121 & 122)	Not applicable	About 155 Million T	
1f	General remarks of inspecting officer	Most of the lease area is explored in G1/G2 level of exploration. Remaining 90Ha lease area, work order given to BK Diamonds for proposed exploration in present plan period up to 2019-20.		

**1.0 Development**

SN	Item	Proposals 2017-18 & 2018-19	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit no-1 to 6 & left and right side of northern part of NH as proposed. 468150 E – 469850 E 2598260N-2595460N (Plate no 5A to 5E)	Partly done in pit no 1, 2, 3 & 6 as proposed but lagging in production achievement lateral & depth also due to extended EC capacity limit.	Mine workings deviated due to lagging in production due to Expanded EC capacity & under process.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not proposed	No OB/waste generated	
2c	Stripping ratio or ore to OB ratio	Not given	Not applicable	
2d	Quantity of topsoil generation in m3	No proposal	Not applicable	
2e	Quantity of overburden generation in m3	No proposal	Not applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mine workings deviated due to lagging in production in plan period due to expanded EC capacity / quality constraints.		

**2.0 Exploitation**

SN	Item	Proposals 2017-18 & 2018-19	Actual work	Remarks
3a	Number of pits proposed for production (Plate no 5A to 5E)	06 Pits (Pit No.1,2,3,4&6, left of NH in northern part & South of NH in southern part)	04 Pits (Pit-1, 2,3 & 6)	Partly done as proposed due to lagging.
3b	Quantity of ROM mineral production proposed	5000353T (2017-18) 5000072T (2018-19)	1171883T (2017-18) 1290000T (2018-19) Till Jan.,19	EC for production expansion from 1.505 MTPA to 5.0 MTPA is under process.

3c	Recovery of saleable/usable mineral from ROM production	100%	100%	Captive Consumption
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Not given	NA	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade/ mineral reject	Not Applicable	Not Applicable	-
3j	Provision of drilling & blasting in mineral benches	Not applicable	Not Applicable	-
3k	Provision of mining machineries in mineral benches	Surface Miner-2 no's cutting with 2500 mm, Front Loaders 4 no's 5.76 CuM Dumpers - 40 (25T) & other Auxiliary Equipment's like Dozer, Water Sprinklers etc.	As per proposal but lagging in ROM due to extended EC capacity.	
3l	Whether height of benches in OB & mineral suitable for method of mining proposed	Mining to be carried out by Surface Miner only	Mining is carried out by Surface Miner	
3m	Total area covered under excavation/pits	Pit-150.24	Pit -133.42 Ha	Total area is about 165.96 ha
3n	Ore to OB ratio for the pit/mine during the year	Not proposed	Nil	
3o	Total area put in use under different heads at the end of year (as on 31.03.2018)	Pit – 150.24 Waste / reject-0 Others Rd & Infra-24	Pit -133.42 Ha Road & Plantation 21.26 ha	Total area put in use under different heads
3p	Production of ROM mineral during last five-year period, as applicable	2014-15 5.00 2015-16 5.00 2016-17 5.00 2017-18 5.00 2018-19 5.00	1.39 1.34 1.34 1.17 1.29	EC for expansion of production from 1.50 MTPA to 5.0 MTPA is under process. (up to Jan-19)
3q	General remarks of inspecting officer on method of mining etc.	Production lagging due to expanded EC capacity/ plant requirement / quality etc. & under process.		

### 3.0 Solid Waste Management-Dumping

SN	Item	Proposals 2017-18 & 2018-19	Actual work	Remarks
4a	Separate dumping of topsoil, OB/Mineral reject (Rule 32, 33)	No proposal	Not applicable	Not applicable
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Not applicable	
4c	Number of dumps within lease area and outside lease area	None	None	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable	
4e	Number of active & alive dumps	No proposal	Not applicable	
4f	Number of dead dumps	Nil	Nil	

4g	Number of dumps stabilised	Not applicable	-	
4h	Whether Retaining wall or garland drain all along dumps are there	Not applicable	-	
4i	Length of Retaining wall or garland drain all along dump	Not applicable	-	
4j	Number of settling ponds	Rain water storage in mined pits	Rain water stored in mined pits	
4k	Specific comments of inspecting officer	No OB/Waste proposed & generated. Entire ROM is utilising by proper blending as per quality requirement.		

#### 4.0 Solid Waste Management-Backfilling

SN	Item	Proposals 2017-18 & 2018-19	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No backfilling proposed	Not Applicable	
5b	Area under backfilling of mined out area	No proposal	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No top soil exist in lease area	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	No OB/Waste proposed & generated. Entire ROM is utilising by proper blending as per quality requirement.		

#### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals 2017-18 & 2018-19	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format.	Proposed	Annual report on PMCP submitted on 23/05/2018	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal	Not applicable	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific	No proposal	Not applicable	Rain water is stored in mined out pits area for water sprinkling. The area is very in less rainfall.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	2000No/2.00 Ha (2017-18 & 18-19) Fencing-535M & 589m	2900No/5.54 Ha & 1530No/2.5Ha, Fencing-950M & 1300m with concrete boundary wall	Cumulative-17820 Nos./20.12Ha
6e	Compliance of Environmental monitoring (core zone/buffer zone)	21.32 Lakh	39.94 Lakhs	Budget as per EIA
6f	General remarks of inspecting officer on PMCP compliance & progressive	Annual report on PMCP submitted on 23/05/2018, Scarcity of water is big problem in this area. Survival is poor.		

## 7.0 Mineral Conservation

SN	Item	Proposals 2017-18 & 2018-19	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	5.0 MTPA 5.0 MTPA	1.17 MTPA (2017-18) 1.29 MTPA (2018-19)	Lessee is utilizing entire ROM by proper blending as per plant requirement.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Required	Not required	
7c	Different grade of mineral sorted out at mines	Multi-pit blending	Multi pit blending is done	
7d	Any beneficiation process at mines	Not required	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Lessee is utilizing entire ROM by proper blending as per plant requirement.		

## 8.0 Environment

SN	Item	Proposals 2017-18 & 2018-19	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No generation	Whatever little top soil is generated, directly used for plantation purposes.
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	
8d	Use of OB, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation & rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	Nil	
8f	Baseline information on (Rule 41) existence of plantation & additional plantation done	Proposal for plantation along Nala / Road side	Plantation is carried out along road side (waste land / Nala & fenced.	
8g	Survival rate	65%	About 78%	
8h	Water sprinkling on roads to control airborne dust	Water spraying on haul road loading & unloading points shall be provided	Regular water sprinkling is done.	02 sprinklers are deployed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	If any little top soil is generated, directly used for plantation purposes		

## 9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	M.R. submitted up to –Jan. 2019 (7/02/19) A.R. submitted up to- 2017-18 (18/06/18)		Regular practice with in time
S.N	Item	Details GIVEN in A.R.	Observation of I/O	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist & Manager	Graduate Mining Engineer -01 Diploma Mining Engineer-02 Geologist – 1 & Manager -1	Shri Hitesh Patel- BE Mining , <b>30-06-2018</b> , Sachin Sharma: MSc Geology & > 10 year experience. <b>16-04-18</b>	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under use – 133.42 Ha, Reclaimed area –13Ha Occupied by plant & bldg.-14Ha	**Scrutiny of annual return for the year 2017-18 has been carried out & deficiencies pointed out to lessee for rectification.	
9d	Scrutiny of Annual return on afforestation	No of trees planted: 2900 with survival rate of 78%		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	There is no mineral rejects during the year 2017-18		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No stocking of the mineral, limestone raised during the year has been consumed at captive		

		cement plant.		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex.Mine price – 176.61 Rs. /T (Cement grade) as captive used.		
9i	Scrutiny of Annual return on fixed assets	Land: Rs. 71694934 (Addition during the year) Plant: Rs 27466317		
9k	Scrutiny of Annual return on mining machineries	SURFACE MINER SM2200 – 2 Wheel Loaders – 2 Duper / Tippers: 18 Water Tanker: 02 Motor Grader-01		

*\*\*Part-I, Name & address of earlier lessee/owner is mentioned as M/s Jaiprakash Associates Ltd which is not correct. It needs correction. Part-III, Sr No.1, electricity consumed in mine lease area shown as NIL, which is incorrect. Part-III, Sr No.4 & 5, Depreciation of fixed assets & Overhead cost is not given correctly, reconcile & furnished with respect to weighted average of instant lease instead of similar cost in both the leases. Part-V, Sec-5/6/8/9-HEMM capacity used in mine & proposed in approved mining plan are not same. It needs correction. Part-VI, Sr.No.2- Computation of Ex-mine price is not taken proportionately in both the lease area. It needs correction. Transportation cost from mine pit head to cement plant should be mentioned separately in respective column. It needs correction. Part-VII- Sr No. (v) Cost of royalty/ tonne mentioned as 86.43Rs./T which is not correct. cost of production needs to reconcile & furnished proportionately. Production proposal for financially year 2017-18 is shown as zero, which is not correct.*

**10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:** - Presently no significant violation observed, except Rule 45(5) & 31(4) pointed out regarding discrepancies in annual return 2017-18 & monthly return of Jan, 19. Lessee is regular in submission of periodical returns. Review of mining plan approved by this office on 02/3/2017 for present plan period. Transfer of ML from JPCCL to UCCL done by State Govt. & passed order in favour of UCCL on 28/11/2018.

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