

## INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1(a)	Name of Inspecting Officer with Designation & date of Inspection.	G.Ram, Sr. Assistant Controller of Mines Date of Inspection-10/7/2017 (For Star rating of Mines inspection)
1(b)	Name of the Mine	Kovaya Limestone Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	953.3253 Ha. (No forest land falls within Lease area)
3	Mine code	38GUJ02009
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/441/2011
5	Name of the lessee, Address, phone, email and fax number	M/s UltraTech Cement Limited Gujarat Cement Works Village – Kovaya, Taluka – Rajula, Distt – Amreli 365541 Mobile - 9922413048
6	Village	Kovaya
7	Taluka/Mandal	Rajula
8	District	Amreli
9	Pin code	365541
10	State	Gujarat
11	Post office	Kovaya
12	Nearest police station	Rajula
13	Nearest Railway station	Rajula Jn.
14	Date of Grant of Mining Lease	07.06.1995
15	Date of Execution	01.03.1996 (Valid up to 28.02.2046 i.e. 50 years) as per MMDR Amendment Act,2015.
16	Date of opening of Mine	04.09.1995
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Nominated Owner – Mr. OM Prakash Puranmalka Aditya Birla Centre S. K. Ahire Marg Worli, Mumbai – 400030 Telephone - 022-66917421 Email- ajit.ostwal@adityabirla.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Vivek Khosla M/s UltraTech Cement Limited Gujarat Cement Works Village – Kovaya, Taluka – Rajula, Distt – Amreli 365541 Mobile – 7622001734 Date of Appointment – 28.05.2015
22	Name of the Mines Manager	Mr. Vinay S. Chitale

with Address, phone, email, fax number and date of appointment in mines	M/s UltraTech Cement Limited Gujarat Cement Works Village – Kovaya, Taluka – Rajula, Distt – Amreli 365541 Mobile – 9922413048 Date of Appointment – 01.07.2016
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23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Vinay S. Chitale BE-Mining with 23 years experience M/s UltraTech Cement Limited Gujarat Cement Works Village – Kovaya, Taluka – Rajula, Distt – Amreli 365541 Mobile – 9922413048 Date of Appointment – 01.07.2016
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mr. Vinay S. Chitale BE-Mining with 23 years experience Shri Nitya Dixit, Geologist , MSc (Geology) & More than 10Year experience
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)/MS-596/2010 Dated- 26.07.2016, Period from 2016-17 to 2020-2021
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	682(23)/MS-596/2010 Dated- 26.07.2016, Period from 2016-17 to 2020-2021
27	Mineral(s) granted in lease and proved for mining	Limestone & Marl
28	Method of Mining(Opencast, Underground)	Mechanised Opencast Mining
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/Non Captive	Captive Cement Plant

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

### Exploration

SN	Item	Proposals (2016-17)	Actual work	Remarks
1a	Backlog of previous year	Proposed Production – 7.85 million Tonnes	Actual Production – 5.06 million Tonnes	Its captive consumption.
1b	Exploration over lease area for Geological axis 1 or 2.	32 core borehole proposed in 17-18	Not done and reported till inspection .	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not applicable in view of above		
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration Status (G1 – 698.56 ha., G2 – 60.24 Ha. & G3 194.5253 Ha.)		

1e	Balance reserves (Million Tonnes) as on 01.04.2016	UNFC-111 – 118.03, 121&122 – 5.67, 211 – 76.37 221/222 – 17.65, 332/333 – 59.41
1f	General remarks of inspecting officer on geology, exploration etc.	43 Nos. of Core Borehole of 15-35m depth drilled in year 2012-13 & 13-14.

## **2.0 Development**

SN	Item	Proposals(2016-17)	Actual work	Remarks
2a	Location of development w.r.t. lease area	As per Proposal		
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Proposed for separate bench in Ore & waste	Maintained as per proposal in irregular manner	
2c	Stripping ratio or ore to OB ratio	1: 0.113	1: 0.04	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	88983 M <sup>3</sup>	181752 M <sup>3</sup>	For taking land possession
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The topsoil is windblown sand, which is not in fertile in nature & consider as OB as proposed in approved Review of Mining Plan.		

## **3.0 Exploitation**

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	8	8	
3b	Quantity of ROM mineral production proposed	7.850555Million Tonnes	5.06 Million Tonnes	
3c	Recovery of salable/usable mineral from ROM production	100% utilization of ROM as per quality requirement by proper blending with Marl/High grade L/S. Legging of production achieved due to plant feed d		
3d	Quantity of mineral reject generation	Not Proposed	NIL	
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	NIL	
3f	Quantity of sub-grade mineral generation	Not Proposed	NIL	
3g	Grade of sub-grade mineral generation	Not Proposed	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	NIL	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed but earlier Beneficiation study was carried out by IBM for utilisation of low grade material.		
3j	Provision of drilling & blasting in mineral benches	IBH-10 drill (Atlas Copco) of 4-4.5" dia. hole	IBH-10 drill (Atlas Copco) of 4-4.5" dia hole	
3k	Provision of mining machineries in mineral	Surface Miner-SM-2200 & HEMM L&T-300CK with	Surface Miner-SM-2200 & HEMM with Loader &	

	benches	Loader & Tipper as proposed	Tipper as proposed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	As per Proposal, bench height maintained as per Surface Miner & HEMM requirement in different Pits & optimised.		
3m	Total area covered under excavation/pits	It was proposed to work as earmarked & shown at page-44&45 127198 M <sup>2</sup>	Partly done as proposed area in earmarked due to lagging in Production.	
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.113	1: 0.04	
3o	Total area put in use under different heads at the end of year	Pit-12.7 ha. Waste/reject – 0.00 Others- 0.00	Pit-12.7 ha. Waste/reject – 0.00 Others- 0.00	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2016-17 - 7850555 Yr-2015-16 - 8730000 Yr-2014-15 - 8730000 Yr-2013-14 - 8730000 Yr-2012-13 - 7840000	Yr-2016-17 - 5061172 Yr-2015-16 - 5275865 Yr-2014-15 - 5343116 Yr-2013-14 - 5379079 Yr-2012-13 - 5932555	All quantity in Tonnes
3q	General remarks of inspecting officer on method of mining etc.	The lagging in ROM production achieved due to lack of plant requirement & blending of low grade material.		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	88983 M <sup>3</sup>	181752 M <sup>3</sup>	
4b	Location of topsoil, OB & mineral reject dumps	Proposed area 1.06Ha in Plan period in Soil Dump as Earmarked in plate 5A&5B	Done as proposed partly due to lagging.	
4c	Number of dumps within lease area and outside lease area	Single	Single	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active & alive dumps	NA	NA	
4f	Number of dead dumps	NA	NA	
4g	Number of dumps stabilised	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed for 2016-17 & 2017-18 till	Not done	
4i	Length of Retaining wall or garland drain all along dump	2.129 KM		
4j	Number of settling ponds	Not proposed for 2016-17	Not done	
4k	Specific comments of inspecting officer	NIL		

### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2016-17)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling proposed previously mined out areas	3.00 Ha.	
5b	Area under backfilling of mined out area	0.90 ha. As proposed in plate no.5A&5B	About 0.90 Ha. for the year	Plantation done during 2016-17 (5000 Nos.)
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	2.0 Ha.		
5d	Total area fully reclaimed & rehabilitated	2.09 Ha.	3.0Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc	NA	NIL	

### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.	Given vide letter no. UTCL/GCW/KLM/2017-18/54 dated 08.07.2017 to IBM Gandhinagar office.		
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	2.0Ha  5000Nos.   500m Wire fencing	2.0Ha  5000Nos.   500m Wire fencing	
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 means	i) Voids available for backfilling - 300 Mtr. * 100 Mtr. ii) Void filled by waste/tailings – OB / Top Soil iii) Afforestation on the backfilled area - 3.00 Ha. iv) Rehabilitation by making water reservoir - Nil		
6d	Compliance of Rehabilitation of waste land within lease	No waste land available in the ML. Afforestation done only reclaimed area as on earmarked on plate No 5A&5B		

	i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	5000Nos. 2.0Ha area
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Periodical monitoring in core & buffer zone as per MOEF&CC/IBM guidelines.
6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL

### **7.0 Mineral Conservation**

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not proposed	NIL	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	NIL	
7c	Different grade of mineral sorted out at mines	Not proposed	NIL	
7d	Any beneficiation process at mines	Not proposed	NIL	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Entire ROM/Salable ore is blending & utilising as per Plant requirement.		

### **8.0 Environment**

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed as earmarked in plate in 5A&5B	The OB/Waste is removing separately & stacked as earmarked.	
8b	Concurrent use or storage of topsoil	Not Proposed	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed as earmarked in plate in 5A&5B	The OB/Waste is removing separately & stacked as earmarked.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Details available in annexure 1 as additional plantation done outside the lease area as given in annexure1.		
8g	Survival rate	Not Proposed	85-90%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling carried out on the haul road round the clock		
8i	General remarks of inspecting officer on aesthetic beauty in and around mines	The topsoil is windblown sand, which is not in fertile in nature & consider as OB as proposed in approved Review of Mining Plan.		

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### 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to till date – Before 10 <sup>th</sup> of every month A.R. submitted up to till date- 29.06.2017		
S. N.	Item	Details GIVEN in A.R. ( 2016-17)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mr. Vinay S. Chitale BE-Mining with 23 years experience Shri Nitya Dixit, Geologist , MSc (Geology) & More than 10Year experience		The lessee/ party has been submitted the online annual return for the year 2016-17 on 29.6.2017 with in stipulated time.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C working-636.21Ha. Reclaimed area-85.44Ha Infrastructure-5Ha Others-2.06Ha	NIL	
9d	Scrutiny of Annual return on afforestation	WML -5000-(87.5%) OML-300-(94.2%)	----	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral rejects/sub grade is being utilised by proper blending with high grade mineral as outsourced reported.		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	L/S-O/s-0, Production & Dispatch-3795906T, C/stock-0, Marl- O/s-0, Production & Dispatch-1265266T, C/stock-0	---	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex Mine price- (Limestone)- 197.6Rs/T (Marl)-170.99Rs/T	--	
9i	Scrutiny of Annual return on fixed assets	Fixed assets information given.	--	
9k	Scrutiny of Annual return on mining machineries	Surface Miner-SM-2200 & HEMM L&T-300CK with Loader & Tipper as proposed	Using HEMM as proposed in approved RMP.	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - The review of mining plan was approved on 26.07.16 for the Period from 2016-17 to 2020-2021. Presently no significant violations observed.