

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Kharai-Harudi Limestone Mine (38GUJ10009)
1(b)	Name of Inspecting officer & Designation	G. Ram, Sr.Assistant Controller of Mines
1(c)	Accomp.official	Shri Vivek Uplanchiwar & Rakesh Purohit, Tech. Person
1(d)	Date & Type of Inspection	22.10.2018 & RMP
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	2831.61Hect. ( Non-Forest) Survey No.various
3	IBM Registration Number under rule 45 of MCDR, 1988	IBM/441/2011
4	Taluka/Mandal	Abdasa
6	District	Kutch
7	Pin code	370511
8	State	Gujarat
9	Post office	Vayor
10	Nearest police station	Baranda
11	Nearest Railway station	Bhuj
12	Date of Grant of Mining Lease	06-09-2008
13	Date of Execution	<b>19.10.2008</b> , As per MMDR Act 2015 lease is extended for the period of 50 years. Expiry 18.10.2058
14	Date of opening of Mine	02/12/2013
15	Date of first Renewal, if applicable and its period & expiry	Not Applicable
16	Date of second Renewal, if applicable and its period & expiry	Not Applicable
17	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
18	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. O.P Purnamalka, WEF-18/07/2017 Ahura Center, B - Wing 2 <sup>nd</sup> Floor Mahakali Caves Road, Andheri (E), Mumbai, Maharashtra- 400093,
19	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Vivek S. Uplanchiwar, WEF -01-07-2016 UltraTech Cement Ltd, Unit: Sewagram Cement Works Village – Vayor, Taluk – Abdasa, Dist – Kutch, Gujarat – 370511, Phone no: +91-2831-279604 E-mail: <a href="mailto:vivek.uplanchiwar@adityabirla.com">vivek.uplanchiwar@adityabirla.com</a> Fax no: +91-2831-279279
20	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Rajesh Thakare, (BE Mining) WEF <b>19/03/2018</b>
21	Name of the Mining Engineer & Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Sanjay Bawane- BE Mining with more than 10 years' experience. 14/10/2018 & Ramesh kaul-M.Sc. Geology with more than 20 years' experience. WEF 16/04/2018
22	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes- As above
23	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan was approved vide letter no 682(23) 578/2007 Udai from 2008-09 to 2012-13, Dated-09-06-2008

24	Date of Approval of Scheme of Mining/Mod. Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of mining Plan was approved vide letter No 682(23)(632)/2008 Dated 09/07/2014 for the period of 2014-15 to 2018-19
25	Mineral(s) granted in lease and proved for mining	Limestone
26	Method of Mining(Open cast, Underground)	Open cast
27	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
28	Captive/Non Captive	Captive

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

### 1.0 Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	It was proposed to drill 524 core boreholes in previous plan period as earmarked in Plate no- 7,8,9 & 10	Lessee has carried out the 394 core boreholes in plan period of 2014-15 to 2016-17	Entire lease area is explored in G1 & G2 except Vaghapadar Block due to land constraints.
1b	Exploration over lease area for Geological axis 1 or 2.	2831.61	2468 HA 2218-G1 250-G2 364-G3	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	-	Synergy GeoTech Private Limited & BK Diamond	61.14 Lakhs from 14-15 to 16-17
1d	Balance area to be explored to bring Geological axis in 1 or 2		364 HA area still remains for exploration in Block Vagapadar	
1e	Balance reserves as on 01.04.2018 (111, 121 & 122)	Not applicable	457 Million T	
1f	General remarks of inspecting officer	Presently lessee has proposed the Vaghapadar Block lease area in present plan period as per provisions of MCDR 2017.		

### 2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit-5A, 5B, Extension, Pit7 & Pit 8 bounded by coordinates 464150 E – 468650 E, 2597460 N-2595760N	As per proposal but lagging in production achievement lateral & depth also. (Plate no 13-16)	Mine workings deviated due to lagging in production in plan period due plant requirement / quality constraints.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not proposed	Nil	
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 plant requirement / quality constraints.		

### 3.0 Exploitation

SN	Item	Proposals		Actual work	Remarks
3a	Number of pits proposed for production (Pit-5A, 5B, Pit7 & Pit 8)	It was proposed to work in 4 Pits as shown in Plate 13-16		Work done partly in 4 Pits as proposed	Partly done as proposed due to lagging.
3b	Quantity of ROM mineral production proposed	68,00,000		2417879 MT	Production lagging due to plant requirement / quality
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-04 Nos Front Loaders-5, 5.74 CuM, Dumpers- 60(30T) & Other Equipment's Dozer, water Sprinkler		Surface Miner-04 Nos Front Loaders-5, 5.74 CuM, Dumpers- 60(30T) & Dozer, water Sprinkler	cutting width 2500 mm,
3l	Whether height of benches in OB & mineral suitable for method of mining proposed	Mining to be carried out by Surface Miner		Mining is carried out by Surface Miner	
3m	Total area covered under excavation/pits	145 Ha area Proposed in previous plan		Actual work 77.32 Ha	Total excavated area is about 92.86 ha
3n	Ore to OB ratio for the pit/mine during the year	Nil		Nil	
3o	Total area put in use under different heads at the end of year (as on 31.03.2018)	Pit- 145 ha Waste / reject- Others Rd & Infra 31.70		77.32 Ha NIL Road 09 ha & plantation 16.63 Ha	Total area put in use under different heads
3p	Production of ROM mineral during last five-year period, as applicable	2014-15	515 MTPA	1.93 MTPA	(Till Sept.2018)
		2015-16	4.86 MTPA	2.33 MTPA	
		2016-17	6.80 MTPA	2.07 MTPA	
		2017-18	6.80 MTPA	2.42 MTPA	
		2018-19	6.80 MTPA	1.45 MTPA	
3q	General remarks of inspecting officer on method of mining etc.	Production lagging due to plant requirement / quality.			

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals	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.		

#### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	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	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.	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 &	No proposal	Not applicable	

	care during the year			
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	No proposal (For the year)	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	6.75 Ha Afforestation & plantation	6.43 Ha Afforestation & plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	54.80 Lakhs	72.02 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	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	6.80 MTPA	2.417 MTPA	Lessee is utilizing entire ROM by proper blending as per plant requirement.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Manual/Mechanized	
7c	Different grade of mineral sorted out at mines	Multi-pit blending	Multi pit blending as regular work 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	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No generation	Whatever little top soil generated is 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 %	60%	overall

8h	Water sprinkling on roads to control airborne dust	Water spraying on haul road loading & unloading points	Regular water sprinkling is done.	3 water sprinklers are deployed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	If any little top soil generated, is directly used for plantation purposes		

### 9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	Monthly & Annual Return Submitted– Online Monthly return up to Sept. 2018 & Annual Return for 2017-18 is submitted 18/06/2018.		Regular practice
S.N	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate ME-Rahul Gopalia/Geologist-Ramesh Kaul & Mines Manager-Rajesh Thakre	Mr. Sanjay Bawane- BE Mining with more than 10 years' experience appointed wef <b>14/10/2018</b> & Ramesh kaul-M.Sc. Geology with more than 20 years' experience, WEF <b>16/04/2018</b>	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under OC-77.32 Ha Reclaimed -14.66 & PMCP-3.9, Plant/Bldg.- 4.15Ha	77.32 Ha, Road 09 ha & plantation 16.63 Ha	
9d	Scrutiny of Annual return on afforestation	No. of trees planted: 4793 No & 14.46 ha survival-78% (WML) & 5400 No & 78% (OML)	No. of trees planted: 4793 No & 14.46 ha survival-78% (WML) 5400 No & 78% (OML)	4.15 Ha area in infrastructure.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	There is no mineral rejects during the year 2017-18.	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No stocking of the mineral, ROM is used in captive purpose.	NIL	Limestone raised has been consumed at captive plant.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value – Nil Ex. Mine price/Cost of Production– 221.48 Rs/T	Sale value – Nil Ex. Mine price/Cost of Production–221.48 Rs/T	
9i	Scrutiny of Annual return on fixed assets	Land: Rs. 71694934 (Addition during the year) Plant: Rs 27466317	Land: Rs. 71694934 (Addition during the year) Plant: Rs 27466317	
9k	Scrutiny of Annual return on mining machineries	SURFACE MINER SM2200-2, Wheel Loaders – 4, Dumper / Tippers: 23, Water Tanker: 03, Diesel Tanker -01, DOZER -2	SURFACE MINER SM2200-2, Wheel Loaders – 4, Dumper / Tippers: 23, Water Tanker: 03, Diesel Tanker -01, DOZER -2	

**10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:** - Presently no significant violation observed & pointed out. Lessee is regular in submission of periodical returns. Review of mining plan approved by this office on 30/11/2018 for next plan period. Transfer of ML from JPCCL under process at State Govt. & passed order in favour of UCCL on 28/11/2018.