

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Kovaya Limestone Mines
1(a)	Name of the Inspecting Officer	Naman Ekka, SMG, 09/09/2021
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, Unit: Gujarat Cement Works Village – Kovaya, Taluka – Rajula, Dist. – Amreli. Pin-365541
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	Marine Police Station, Pipava
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)
16	Date of opening of Mine	01.03.1996
17	Date of first Renewal, if applicable and its period & expiry	As per MMDR Amendment Act-2015, lease period extended for 50 years vide Order No. MCR-102016 –ML–20.CHH.1, dated 12/04/2016 by Govt. of Gujarat. Lease expires on 28.02.2046.
18	Date of second Renewal, if applicable and its 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 date of appointment	Nominated Owner – Mr. K. C. Jhanwar, Ahura Centre, A-Wing, 1 st Floor, Mahakali Caves Road, Andheri (E), Mumbai. Pin- 400093 Telephone - 022-66917421 Email- ajit.ostwal@adityabirla.com Date of Appointment – 19.10.2018
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Vivek Uplanchiwar, M/s UltraTech Cement Limited, Unit: Gujarat Cement Works, Village – Kovaya, Taluka – Rajula, Dist. – Amreli. Pin-365541 Mobile – +91 9904301901 Email- vivek.uplanchiwar@adityabirla.com Date of Appointment – 26.02.2019
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Rajesh Thakare, M/s UltraTech Cement Limited Unit: Gujarat Cement Works Village – Kovaya, Taluka – Rajula, Dist. – Amreli. Pin-365541 Mobile – +91 9887048180 Email- rajesh.thakare@adityabirla.com Date of Appointment – 05.07.2021

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Pratapbhai Chandu, B.E. Mining, Exp.: 6 years M/s UltraTech Cement Limited Unit: Gujarat Cement Works Village – Kovaya, Taluka – Rajula, Dist. – Amreli. Pin-365541 Mobile – +91 9924789955 Email- pratapbhai.chandu@adityabirla.com Date of Appointment – 15.06.2021
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes Appointed. Mr. Pramodaran. M, M.Sc Geology appointed as a Geologist on 29.12.2017 Mr. Pratapbhai Chandu, B.E. Mining appointed as a Mining engineer on 15.06.2021
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide No. 684(4)(1)/MP-310/2020-21-GNR, dated 12/01/2021 Period from 2021-22 to 2025-2026
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Not applicable.
27	Mineral(s) granted in lease and proved for mining	Limestone & Marl
28	Method of Mining(Open cast, Underground)	Open cast Mining
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/Non Captive	Captive Use

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

Exploration

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
1a	Backlog of previous year	No exploration Proposal is given in mining plan	No proposal was given	Exploration was proposed in Mining Plan in the year 2017-18 and it was completed in the same year (32 boreholes drilled)
1b	Exploration over lease area for Geological axis 1 or 2.	No exploration proposed in the year 2020-21	No proposal was given	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No exploration proposed in the year 2020-21	No proposal was given	Exploration completed in the year 2017-18 as per the proposal of mining Plan through M/s Geo-Mine Consultancy, Gandhinagar. Expenditure was Rs. 15.35 lakhs.
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per Mining plan as on 01.04.2016 G1 – 698.56 Ha. G2 – 60.24 Ha. G3 – 194.525 Ha.	Exploration Status as on 01.04.2021 G1 – 773.14 Ha. G2 – 60.25 Ha. G3 - 119.92 Ha.	During the year 2017-18, 32 boreholes drilled in the lease area of 75 ha. to convert G3 axis to G1 axis.
1e	Balance reserves as on 01.04.2020 (million tonnes)	As per Mining plan reserves & resources as on	Balance reserves & resources as on	Reserves/Resources re-estimated as on 01.12.2020 for the

		01.04.2016 in million tonnes 111 – 118.03 121&122 – 5.67 211 – 76.37 221/222 – 17.65 333 – 59.41	01.04.2021 in million tonnes 111 – 130.91 121&122 – 6.38 211 – 47.36 221/222 – 19.43 333 – 50.27	review of Mining Plan for the period 2021-2026
1f	General remarks of inspecting officer on geology, exploration etc.	No exploration has been carried out in 2020-21		

2.0 Development

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
2a	Location of development w.r.t. lease area	Bhakodar Sy. No. 74/75 & Babarkot Sy No. 293, 294	In Sy. No. 74, 294 development work carried out as per the proposal.	Development work in Babarkot Sy. No. 293 is not carried out due to non-possession of lands.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches to be maintained in top Soil and mineral	Separate benches are maintained in the top soil and mineral	No overburden available in the lease. Avg. 0.5 m thickness top soil available.
2c	Stripping ratio or ore to OB ratio	1: 0.01	1: 0.01	No Overburden available. Stripping ratio is given for Ore to Top Soil
2d	Quantity of topsoil generation in m ³	128006 M ³	49625 M ³	Topsoil removed in the Survey No. 74 & 294 as per the proposal.
2e	Quantity of overburden generation in m ³	No overburden removal proposed in mining plan	No overburden extracted	No overburden available in the lease
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of PIT is as per approved MP.		

3.0 Exploitation

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
3a	Number of pits proposed for production	8 pits are proposed for production Bhakodar Sy. No. 74/75, Pit-1, Pit-2, Sy. No. 292, 293, 294, SM Block-N, SM Block-M.	7 pits are utilised for production Pit-1, Pit-2, Sy. No. 292, 294, 74, SM Block-N, SM Block-M.	Babarkot Sy. No. 293 is not operated due to land not under possession.
3b	Quantity of ROM mineral production proposed	7.85 million Tonnes	3.791 million Tonnes	Limestone consumption from Captive Mines is reduced to 70% and increased procurement of 30% Domestic & imported

				sweetener to increase the mines life by consuming the low grade material (marl), which is present in the bottom benches. Mines supplying the material of 78 LSF and plant needs 100 LSF. Difference of quality is fulfilled by purchased sweetener. Due to this production from mines is reduced. Also, due to covid restrictions cement demand is less, which impacted lower production from mines.
3c	Recovery of saleable/usable mineral from ROM production	100 % utilisation of ROM	100% ROM is utilised	Zero mineral waste mining is carried out
3d	Quantity of mineral reject generation	No rejection is given	No rejection is done	Zero mineral waste mining is carried out without any rejection.
3e	Grade of mineral reject generation and threshold value declared	Not applicable	Not applicable	No mineral rejects. However, the CaO% in marl is less than 34% & SiO ₂ is more than 18%, which is utilised simultaneously by blending with high grade limestone.
3f	Quantity of sub-grade mineral generation	Not applicable	Not applicable	Marl quantity 9.478 lac Tonnes utilised in the year 2020-21
3g	Grade of sub-grade mineral generation	Not applicable	Not applicable	Marl quality varies, CaO from 10% to 42% and SiO ₂ is 18% to 35 %
3h	Manual / Mechanised method adopted for segregating from ROM	Not applicable	Not applicable	Marl intermixed with limestone and cannot be segregated.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation is proposed in the mining plan	No beneficiation is carried out	Suitable blending is carried out by mixing high grade material of top benches with low grade material of bottom benches to conserve the mineral and utilise 100% without rejection. Also, to meet the quality of plant requirement, high grade domestic sweetener and

				imported sweetener is purchased.
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting proposed in Pit-1 & Pit-2. Remaining blocks operated by surface miner.	Drilling and blasting is carried out only in Pit-1 & Pit-2. Remaining blocks operated through Surface miner	Both conventional & non-conventional method adopted with 50:50 ratio.
3k	Provision of mining machineries in mineral benches	Surface Miner, Excavator, Dumper, Drill, Dozer is proposed	As per Proposal, Surface Miner, Excavator, Dumper, Drill and Dozer is used	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches are proposed 4 to 8 mtr	As per Proposal Mineral benches are maintained 4 to 8 mtr	No overburden benches. Only top soil of avg. height 0.5 mtr available.
3m	Total area covered under excavation/pits	91.82 Ha. is proposed during the year	76.99 Ha is utilised in the year	Area is less utilised due to less production. Also, Babarkot Sy. No. 293, 210 is not operated due to land not under possession.
3n	Ore to OB ratio for the pit/mine during the year	1: 0.01	1: 0.01	No OB. Ratio is given for Ore to Top Soil
3o	Total area put in use under different heads at the end of year	Pit-Waste/reject: Others-	Area put to use as on 01.04.2021 Pit-556.76 ha Reclaimed-31.08 ha Occupied by plant/building/Road- 8.0 ha Top Soil-0.64 ha Afforestation- 24.23	No details given in mining plan for the end of the year 2020-21
3p	Production of ROM mineral during last five-year period, as applicable	Proposal given in Mining Plan Yr-2020-21 – 7850097 Tonnes Yr-2019-20 – 7850534 Tonnes Yr-2018-19 – 7850777 Tonnes Yr-2017-18 – 7850026 Tonnes Yr-2016-17 – 7850555 Tonnes	Actual production Yr-2020-21 - 3791685 Tonnes Yr-2019-20 – 4292828 Tonnes Yr-2018-19 – 4767393 Tonnes Yr-2017-18 – 4793469 Tonnes Yr-2016-17 – 5061172 Tonnes	Limestone consumption from Captive Mines is reduced to 70% and increased procurement of 30% Domestic & imported sweetener to increase the mines life by consuming the low grade material (marl), which is present in the bottom benches. Mines supplying the material of 78 LSF and plant needs 100 LSF. Difference of quality is fulfilled by purchased sweetener. Due to this production from mines is reduced.

				Also, due to covid restrictions cement demand is less, which impacted lower production from mines.
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is as per approved MP.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal given in mining plan for Overburden or Mineral Rejects. Top soil to be utilised concurrently for plantation.	No dumps available in mines for overburden or mineral rejects. Top soil is used concurrently for afforestation purpose on lease boundary.	No overburden or rejects available in mines. Zero percent mineral waste mining is adopted by suitable blending of marl material.
4b	Location of topsoil, OB & mineral reject dumps	No OB or reject dumps are proposed. Concurrent use of top soil for afforestation on lease boundary & Pit-2 is given in mining plan	No OB or reject dumps are available in mines. Top soil is used concurrently for afforestation on lease boundary at Pit-2	
4c	Number of dumps within lease area and outside lease area	No proposal of dumps in the year 2020-21	No dumps made during the year 2020-21	No OB or rejects dumps in mines
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable	No OB or rejects dumps in mines
4e	Number of active & alive dumps	Not applicable	Not applicable	No OB or rejects dumps in mines
4f	Number of dead dumps	Not applicable	Not applicable	No OB or rejects dumps in mines
4g	Number of dumps stabilised	Not applicable	Not applicable	No OB or rejects dumps in mines
4h	Whether Retaining wall or garland drain all along dumps are there	No dumps in mines and no retaining wall or garland drains proposed	No dumps in mines, hence it is not applicable	No OB or rejects dumps in mines

4i	Length of Retaining wall or garland drain all along dump	Not applicable	Not applicable	No OB or rejects dumps in mines
4j	Number of settling ponds	Not applicable	Not applicable	No OB or rejects dumps in mines
4k	Specific comments of inspecting officer	No Solid waste has been dumped in 2020-21 as reported during inspection.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No backfilling is proposed during the year	No backfilling is done during the year.	
5b	Area under backfilling of mined out area	No backfilling is proposed during the year	No backfilling is done during the year.	Cumulatively about 31.08 ha area reclaimed and rehabilitated
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Concurrent use of top soil for afforestation on lease boundary & Pit-2 is given in mining plan	Top soil is used concurrently for afforestation on lease boundary in Pit-2	Around 2.2 ha area is afforested by planting 5000 saplings during the year 2020-21.
5d	Total area fully reclaimed & rehabilitated	About 2.0 ha is proposed in mining plan by plantation of 5000 saplings on backfilled area for the year 2020-21.	Plantation is done in lease boundary about 2.20 ha by planting 5000 saplings in the year 2020-21	Greenbelt development
5e	General remarks of inspecting officer on backfilling, reclamation etc	No backfilling has been done in 2020-21		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2020-21)	Actual work (2020-21)	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.	Yearwise details are given in the mining plan	Annual report submitted vide letter no. UTCL/GCW/KLM/2021-22/32 dated 09.06.2021 as per Rule 23(E)2 in the prescribed format.	Status given in annual report against the proposal given in PMCP.

6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	About 2.0 ha area proposed for Plantation	About 2.20 ha is rehabilitated by doing plantation in the lease boundary	Pit-2 boundary
6c	Afforestation done (ha)	Proposed 2.0 Ha.	Plantation carried out in 2.20 Ha.	Pit-2 boundary
6d	No. of saplings planted during the year	Proposed 5000 saplings	5000 saplings are planted during the year 2020-21	Peltaforum species are planted
6e	Cumulative no. of plants	No data given in mining plan	Since the inception of mines about 221606 saplings planted	Survival rate is about 74.80 %
6f	Any other specific method of rehabilitation	No proposal given	No other method adopted	
6g	Cost incurred on watch & care during the year	Rs. 13.50 lakhs rupees is proposed in mining plan for the year 2020-21	Rs. 6.0 lakhs is spent for plantation and after care expenses during the year 2020-21	Three years' contract will be awarded for plantation and after care.
6h	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D)	Nil – No backfilling proposed during the year	No backfilling is done during the year.	Mining area is not fully mineral extracted. Hence back filling is not done.
6i	Compliance on reclamation and rehabilitation by backfilling ii) Void filled by waste/tailings	Nil – No backfilling proposed during the year	No backfilling is done during the year.	Mining area is not fully mineral extracted. Hence back filling is not done.
6j	Compliance on reclamation and rehabilitation by backfilling iii) Afforestation on the backfilled area	About 2.0 ha is proposed in mining plan by plantation of 5000 saplings on backfilled area for the year 2020-21.	Plantation is done in on lease boundary about 2.20 ha by planting 5000 saplings in the year 2020-21	Greenbelt development
6k	Compliance on reclamation and rehabilitation by backfilling iv) Rehabilitation by making water reservoir	No proposal given for the year 2020-21	No rehabilitation during the year 2020-21	
6l	Compliance on reclamation and rehabilitation by backfilling v) Any other specific means	No other proposal given in mining plan	No other method adopted for reclamation	
6m	Compliance of Rehabilitation of waste land within lease i) Afforestation	No proposal given for the year 2020-21	Afforestation done on lease boundary	No waste land available in the ML.

6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	No proposal given for the year 2020-21	No area rehabilitated	No waste land available in the ML.
6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	No proposal given for the year 2020-21	No area rehabilitated	No waste land available in the ML.
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring of Ambient air quality, water quality, noise level survey and ground vibration is given in mining plan	Environment monitoring carried out regularly by external Govt authorised agency, 1) Fortnightly air monitoring 2) Monthly surface water sampling 3) Quarterly ground water monitoring 4) Quarterly noise levels 5) Each and every blast vibration recording is carried out by own seismograph equipment.	All the monitoring values are within the prescribed limits
6q	General remarks of inspecting officer on PMCP compliance & progressive	Compliance of PMCP has been done as per approved MP.		

7.0 Mineral Conservation

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	7.85 million Tonnes	3.791 million Tonnes	Limestone consumption from Captive Mines is reduced to 70% and increased procurement of 30% Domestic & imported sweetener to increase the mines life by consuming the low grade material (marl), which is present in the bottom benches. Mines supplying the material of 75 LSF and plant needs 100 LSF. Difference of quality is fulfilled by purchased sweetener. Due to this production from mines is reduced. Also, due to covid restrictions cement demand is less, which impacted lower production from mines.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No sorting is proposed in mining pan	No mineral sorting is done. 100% mineral extracted by mechanised method is crushed directly and transferred to cement plant.	Marl intermixed with limestone and cannot be segregated. 100% utilised by blending with high grade

7c	Different grade of mineral sorted out at mines	No sorting is proposed in mining pan	No mineral sorting is done. 100% mineral extracted by mechanised method is crushed directly and transferred to cement plant.	Marl intermixed with limestone and cannot be segregated. 100% utilised by blending with high grade purchased sweetener limestone.
7d	Any beneficiation process at mines	No beneficiation is proposed in the mining plan	No beneficiation is carried out	Suitable blending is carried out by mixing high grade material of top benches with low grade material of bottom benches to conserve the mineral and utilise 100% without rejection. Also, to meet the quality of plant requirement, high grade domestic sweetener and imported sweetener is purchased.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation issue reported during inspection.		

8.0 Environment

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	In mining plan it is proposed that Top soil to be utilised concurrently for plantation.	Top soil is used concurrently for afforestation purpose on lease boundary.	About 49625 M3 is utilised for plantation during the year 2020-21
8b	Concurrent use or storage of topsoil	No proposal given in mining plan	No top soil stored during the year 2020-21	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No dumps proposed in mining plan for Overburden or Mineral Rejects	No dumps available in mines for overburden or mineral rejects.	No overburden or rejects available in mines. Zero percent mineral waste mining is adopted by suitable blending method
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal in mining plan	No waste or rejects in mines. Hence it is not applicable.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yearwise proposal given in mining plan by backfilling and afforestation	Every year reclamation and rehabilitation carried out by plantation in phased manner as per the proposal. During the year 2020-21 about 2.20 ha area is planted against the proposed area of 2.0 ha.	No dumps available in mines. Greenbelt development is carried out by spreading the soil on lease boundary
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Baseline information given in mining plan as the area consist of agricultural lands and also waste rocky exposed areas.	No existence of major plantation in the area. The mining lands consist of private agricultural area and waste Govt lands.	Survival rate of plantations is about 74.80 %.

			Since the inception of mines about 221606 saplings planted.	
8g	Survival rate	No details given in mining plan	About 94% survival rate in the year 2020-21	3-year contract awarded for after care and guarding of plants.
8h	Water sprinkling on roads to control airborne dust	Water tankers is proposed for water sprinkling on roads	3 dedicated water tankers with capacity of 10KL is used continuously for dust suppression on haul roads	Rain water harvested at mines sump is utilised for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area was good.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
.	Status of submission of Monthly and Annual returns	Monthly Return Submitted upto – 31/07/2021 Annual Return submitted upto- 31/03/2021	No deviation

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	Details given in annual return, Mr. Pratapbhai Chandu, Mining Engineer, Mr. Pramodaran.M, Geologist Mr. Rajesh Thakare, Manager		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details of land use pattern is given as on 01.04.2021, Covered under current workings: 556.76 Ha. Reclaimed area: 31.08 Ha. Plant building, roads: 8.0 Ha. Top Soil storage: 0.64 Ha. Afforestation: 24.23		
9d	Scrutiny of Annual return on afforestation	Afforestation details area given as Within lease area: 5000 saplings planted with 94% survival Outside lease area: 735 saplings planted with survival 86 %.		Outside lease area includes, colony, TPP, Cement Plant and nearby surrounding villages.
9e	Scrutiny of Annual return on mineral reject generation (Grade &	No mineral rejects given in annual return		No mineral rejects available in mines. 100% of mineral utilised with

	quantity)			proper blending.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No stock maintained as on 31.03.2021		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine Price and production cost of Rs. 196.32/Metric Tonne is given in Annual Return. It includes statutory fees such as Royalty, DMF & NMET also.		No sales is done. Mineral is used for captive purpose for manufacturing of cement. Hence no sale value is given.
9i	Scrutiny of Annual return on fixed assets	Fixed assets like, Machinery, Building and land details along with value is given in annual return		
9k	Scrutiny of Annual return on mining machineries	Mining Machinery details are given in mining plan		As per the proposal of mining plan mining machinery is deployed.

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- NIL

Naman Ekka
SMG