MCDR INSPECTION REPORT

1.0 **GENERAL**

SN	Particulars	Details
1(a)	Name of the Mine	Kovaya Limestone Mines, Survey Nos-Various
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Mr. Pramod, Geologist, Mr. Vinay S. Chitale, Mining Eng.
1(d)	Type of Inspection	Star Ratings/MCDR
1(e)	Date of Inspection	03.02.2019
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 Ph No-02794-283081, Fax No-02794283087 Email:vivek.uplanchiwar@adityabirla.com
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 (As per section 8A(5) of MMDR Act,2015
		lease period deemed to be extended up to 28.02.2046 i.e.
		for 50 years (Captive Mining Lease)
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	Nominated Owner – Mr. K. C. Jhanwar,
	Address, phone, email, fax number and date	Ahura Centre, A-Wing, 1st Floor, Mahakali Caves Road,
	of appointment	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,	Mr. Vivek Khosla,
	phone, email, fax number and date of	M/s UltraTech Cement Limited,
	appointment	Unit: Gujarat Cement Works,
		Village – Kovaya, Taluka – Rajula,
		Dist. – Amreli. Pin-365541
		Mobile – 7622001734
		Email- vivek.khosla@adityabirla.com
	N Cd M N	Date of Appointment – 28.05.2015
22	Name of the Mines Manager with Address,	Mr. Vinay S. Chitale
	phone, email, fax number and date of	M/s UltraTech Cement Limited
	appointment in mines	Unit: Gujarat Cement Works

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Village – Kovaya, Taluka – Rajula, Dist. – Amreli. Pin-365541 Mobile – 9922413048 Email- vinay.chitale@adityabirla.com Date of Appointment – 01.07.2016 Mr. Vinay S. Chitale M/s UltraTech Cement Limited Unit: Gujarat Cement Works Village – Kovaya, Taluka – Rajula, Dist. – Amreli. Pin-365541 Mobile – 9922413048 Email- vinay.chitale@adityabirla.com Date of Appointment – 01.07.2016
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes Appointed, Mr. Pramodaran M, Geologist, Date of Appointment-29.12.2017
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan under rule 22(4) of MCR,1960 approved vide letter No682(23)(416)/43-MCCM(N)-UDP dt. 09.11.1994
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	 a) Scheme of Mining under rule 12 of MCDR,1988 approved vide letter No682(23)(MS-123)/2000MCCM(N)-UDP dt. 11.05.2001 b) Modified Scheme of Mining under rule 10 of MCDR,1988 approved vide letter No-682(23)(217/2003MCCM(N)-UDP dt. 30.10.2003 c) Scheme of Mining under rule 12 of MCDR,1988 approved vide letter No682(23)(MS-340)/2006MCCM(N)-UDP dt. 16.06.2006 d) Scheme of Mining under rule 12 of MCDR,1988 approved vide letter No682(23)(MS-596)/2010MCCM(N)-UDP dt. 30.11.2011
27	Mineral(s) granted in lease and proved for mining	Limestone & Marl
28	Method of Mining(Opencast, Underground)	Opencast Mining
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/Non Captive	Captive

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

S	Item	Proposals	Actual work (2017-18)	Remarks
N	Tem	(2017-18)	710tuur Work (2017-10)	Remarks
1a	Backlog of previous year	No backlog of previous year 2016-17	NA	
1b	Exploration over lease area	32 boreholes proposed for	32 core boreholes drilled	
	for Geological axis 1 or 2.	Geological axis 1	with metreage of 800	
			mtrs on grid pattern 200m	
			x 200m	
1c	Exploration Agency &		M/s Geo-Mine	
	Expenditure in lakh Rupees	-	Consultancy,	
	during the year		Gandhinagar.	
			Expenditure- Rs. 15.35	
			lakhs	
1d	Balance area to be explored	No further proposals	Exploration Status (G1 –	
	to bring Geological axis in		698.56 ha., G2 – 60.24	
	1 or 2		Ha. & G3 194.5253 Ha.)	
1e	Balance reserves as on	Reserves (In Mill Tonne)	Reserves (In Mill Tonne)	

	01.04.2018	Proved (111) :118.03	Proved (111):108.18	
		Probable(121&122):5.67	Probable(121&122):5.67	
		Resources(In Mill Tonne)	Resources(In Mill Tonne)	
		Feasibility(211):76.37	Feasibility(211):76.37	
		Pre-Feasibility:17.65	Pre-Feasibility:17.65	
		Inferred(333):59.41	Inferred(333):59.41	
1f	General remarks of	Extensive exploration carried in the area in phase wise manner		
	inspecting officer on	1972-75: 60 BH Drilled, 1048.02 Mterage, (Agency:By CGM) Gujarat)		
	geology, exploration etc.	1991-92: 151 BH Drilled, 2937.00 Meterage, (Agency-M/s ACC)		
		1995-96 7 228 BH Drilled, 3237.49 Meterage, (Agency-M/s. ACC & Holtec		
		2003-04 5		
		2012-14: 43 BH Drilled, 1349.	10 Meterage, (Agency-M/s.	BK Diamonds)

2.0 Development

S	Item	Proposals	Actual work	Remarks
N		(2017-18)	(2017-18)	
2a	Location of development	Working proposed at 15	Working carried out at	Violation of Rule
	w.r.t. lease area	locations between grid	proposed locations but	11(1) was pointed
		NA1600 to (-)400 &	deviations were	out for this deviation
		EW6500 to (-)300	observed	
2b	Separate benches in topsoil,	Separate benches in Top	Yes, maintained as per	
	overburden and mineral	soil & mineral proposed	the proposals	
	(Rule 15)			
2c	Stripping ratio or ore to OB	1: 0.004	1: 0.016	
	ratio	_	_	
2d	Quantity of topsoil	37824 M ³	77677 M ³	For taking land
	generation in m3			possession
2e	Quantity of overburden	No Proposals	Nil	
	generation in m3			
2f	General remarks of	Except top soil no other OB	or inter burden encountere	ed during the course of
	inspecting officer on	mining operations. Marl is not feasible to segregate separately.		
	development of pit w.r.t.			
	type of deposit etc.			

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
		(2017-18)	(2017-18)	
3a	Number of pits proposed for	Working proposed in 8	Working carried	Violation of Rule
	production	pits	out at proposed	11(1) was pointed
			locations with some	out for this deviation
			deviations	
3b	Quantity of ROM mineral	Proposed Production –	4.79 million	Lagging in
	production proposed	7.85 million Tonnes	Tonnes	production
3c	Recovery of saleable/usable	100% recovery of usable	100% recovery of us	
	mineral from ROM production	mineral from ROM	ROM by systematic 1	blending with marl
3d	Quantity of mineral reject	No Proposals	Nil	
	generation			
3e	Grade of mineral reject	No Proposals	Nil	
	generation and threshold value			
	declared			
3f	Quantity of sub-grade mineral	No Proposals	Nil	
	generation			
3g	Grade of sub-grade mineral	No Proposals	Nil	
	generation			
3h	Manual / Mechanised method	No Proposals	Nil	
	adopted for segregating from			

	ROM			
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposals	Not proposed but earlier Bene study was carried out by IBM utilization of low grade limeston	for
3j	Provision of drilling & blasting in mineral benches	Proposed by Drill-IBH-10 (Atlas COPCO, 152mm dia drill	Done by Drill-IBH-10 (Atlas COPCO, 152mm dia drill	
3k	Provision of mining machineries in mineral benches	Excavator L &T300CK Surface Miner-350TPH Drill IBH-10 (Atlas Copco) Dumper-35Tonnes Loader cum backhoe	Excavator L &T300CK Surface Miner-350TPH Drill IBH-10 (Atlas Copco) Dumper-35Tonnes Loade cum backhoe	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of 6 to 8m proposed in mineral.	Bench height is maintained as per the proposals	
3m	Total area covered under excavation/pits	As per the approved MP total 657.51Ha area was proposed to be excavated	656.673 Hectares as on 31.03.2018	
3n	Ore to OB ratio for the pit/mine during the year	1:0.004	1:0.022	
30	Total area put in use under different heads at the end of year	Pit-578.568 OB storage-2.06 Infrastructure-3.0 Road-2.0	Pit-656.673 ha Reclaimed-87.47 ha Occupied by plant/building- 5.0 ha Waste/OB Soil-2.06 ha	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2017-18 - 7850026 Yr-2016-17 - 7850555 Yr-2015-16 - 8730000 Yr-2014-15 - 8730000 Yr-2013-14 - 8730000	Yr-2017-18 - 4793469 Yr-2016-17 - 5061172 Yr-2015-16 - 5275865 Yr-2014-15 - 5343116 Yr-2013-14 - 5379079	All quantity in Tonnes
3q	General remarks of inspecting officer on method of mining etc.	Opencast mining by fully conventional method.	mechanised means by surfa	ce miner &

4.0 Solid Waste Management-Dumping

S N	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	37824 CuM Top soil proposed to stacked on earmarked locations	77677 M³ generated & stacked as per Proposal	Separate dumping of top soil proposed
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	As per Proposal	
4c	Number of dumps within lease area and outside lease area	Single	Single within lease area (Top Soil Stacked)	
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	Nil	Nil	

4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	
4i	Length of Retaining wall or garland drain all along dump	2.129 KM		
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer		id of any OB, only the OM is being utilized in central control of the control of	•

$\underline{5.0\ Solid\ Waste\ Management\text{-}Backfilling}$

S	Item	Proposals	Actual work	Remarks
N		(2017-18)	(2017-18)	
5a	Status on part or full extraction of	Not Proposed	Backfilling proposed	
	mineral from mined out area before		previously mined out	
	starting backfilling		areas	
5b	Area under backfilling of mined out	0.40 ha.	1.13 ha	Plantation done
	area			during 2017-18
				(5000 Nos.)
5c	Concurrent use of topsoil for	2.0 Ha.	4.0 ha	
	restoration or rehabilitation of			
	mined out area (Rule 32)			
5d	Total area fully reclaimed &	NA	87.47 ha	
	rehabilitated			
5e	General remarks of inspecting	Most mined out area was reclaimed & rehabilitated previously over		
	officer on backfilling, reclamation	the marl/low grade limestone horizon. But, presently, this Marl/low		
	etc	grade zone being mined	to conserve the mineral.	

6.0 Progressive Mine Closure Plan

S	Item	Proposals	Actual work	Remarks
N		(2017-18)	(2017-18)	
6a	Whether Annual report on PMCP	To be submitted	Submitted vide letter no.	
	submitted on time and correctly -	within prescribed	UTCL/GCW/KLM/2018	
	Rule 23E(2). Details should be	time limit	-19/39 dated 30.06.2018	
	given in the format as given in			
	Annexure-20.			
6b	Management of worked/mined			
	out benches			
	i) Area available for rehabilitation	2.0	i) 4.0 ha	
	(ha)			
	ii) Afforestation done (ha)		ii) 4.0 ha	
	iii) No. of saplings planted during	5000 Nos	, ,	
	the year		iii) 7100 saplings	
	iv) Cumulative no. of plants		,	
	v) Any other specific method of		iv) 228632 saplings	
	rehabilitation	500 M Wire fencing		
		Joo ivi ville lellellig	v) Nil	
	vi) Cost incurred on watch & care			
	during the year		vi) Rs. 36.42 lakhs	

6с	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	NA	 i) 2.03 ha ii) Soil spred and reclaimed 2.03 ha iii) Afforestation on the backfilled area – 2.03 Ha. 	
	iv) Rehabilitation by making water reservoir		iv) Nil v) Nil	
6.1	v) Any other specific means	D.T.A.	NT	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	No waste land available in the ML. Afforestation done only on reclaimed area as marked on plate No-	
6e	Compliance of Environmental monitoring (core zone & buffer zone)		5A&5B Fortnightly monitoring done in core zone and quarterly monitoring done in buffer zone	
6f	General remarks of inspecting officer on PMCP compliance & progressive		ribed form submitted on 30.0 er the proposals. Huge plantal the mine.	

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
		(2017-18)	(2017-18)	
7a	ROM Mineral dispatch or grade-	7850026MT ROM	3595187MT ROM	
	wise sorting within lease area	proposed to be produced	dispatched and no	
			sorting of mineral	
7b	Method of grade-wise mineral	Not Proposed	NA	
	sorting i.e. manual or mechanical			
7c	Different grade of mineral sorted	Not Proposed	NA	
	out at mines			
7d	Any beneficiation process at	Not Proposed	NA	
	mines			
7e	General remarks of inspecting	Limestone is being conserved very systematically as entire ROM is		
	officer on Mineral conservation	consumed in cement plant. Marl is also being consumed in limestone		
	& beneficiation issues	along with some outsourced high grade limestone.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
		(2017-18)	(2017-18)	
8a	Separate removal and utilization	Separate removal &	Soil removed and	
	of topsoil (Rule 32)	utilization is proposed	utilised for plantation	
8b	Concurrent use or storage of	Concurrent use of top	Top soil used for	
	topsoil	soil is proposed as area	plantation	
		is readily available for		
		backfilling		
8c	Separate dumps for overburden,	No Proposals	No OB encountered in	
	waste rock, rejects and fines		lease area except top	
	(Rule 33)		soil	
8d	Use of overburden, waste rock,	-	No overburden to refill.	
	rejects and fines dumps for		Top soil is spreaded	
	restoring the land to its original		and plantation carried	
	use		out	

8e	Phased restoration, reclamation	0.40Ha area proposed	Every year reclamation	
	and rehabilitation of lands	for reclamation	and rehabilitation	
	affected by mining operations		carried out by	
	(Pits, dumps etc)		plantation	
8f	Baseline information on	Total 5000 Saplings	Total 7100 saplings	
	existence of plantation &	proposed to be planted	planted	
	additional plantation done (Rule	over 2.0 Ha area		
	41)			
8g	Survival rate	90%	87.5%	
8h	Water sprinkling on roads to	Water spraying on	Water sprinkling	
	control airborne dust	mines haul road,	carried out on the haul	
		loading, unloading	road, unloading points	
		points proposed.	regularly	
8i	General remarks of inspecting	Aesthetic beauty in and	d around mine area is	excellent & huge
officer on aesthetic beauty in and plantation carried out by the lessee in & around mining			ng lease area.	
	around mines are			

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of	M.R. Submitted upto – 31/01/2019	
	Monthly and Annual returns	A.R. submitted upto- 31/03/2018	

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	Mr. Vinay S. Chitale appointed as ME Mr. Pramodaran M appointed as Geologist	Both Mining engineer & Geologist were present during inspection	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-656.67Ha Reclaimed& Reha-87.47Ha Infrastructure-5.0Ha Other-2.06Ha	Nil	
9d	Scrutiny of Annual return on afforestation	7100 Nos saplings planted with survival rate of 87.5%	Excellent plantation work done to enhance the aesthetic beauty of the lease area	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No rejection	Mineral reject or sub-grade which is encountered as Marl is being blend with outsourced high grade limestone	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Limestone: ROM:Production:3740152MT Despatched:3595178MT Closing Stock:144965MT Marl: ROM:Production:1246604MT Despatched:1198282MT Closing Stock:48322MT	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Limestone: 199.30/MT Marl:172.88/MT	Violation of Rule 45(5)(C) of MCDR,2017 pointed for deviation in ex-mine price	
9i	Scrutiny of Annual return on fixed assets	Fixed Assets given as 1013319631	Nil	
9k	Scrutiny of Annual return on mining machineries	Excavator L &T300CK Surface Miner-350TPH	Proposed machineries being	

Drill IBH-10 (Atlas Copco)	used in excavation	
Dumper-35Tonnes		
Loader cum backhoe		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- The last inspection of mine was carried out on dtd 10.07.2017 and no violations were pointed. Present inspection was carried out in connection with evaluation of Star Ratings Templates/MCDR and during the inspection violations of rules 11(1), 45(5)(C) & 54(a) of MCDR,2017 were pointed out and accordingly violation letter was issued.
