

**MCDR INSPECTION REPORT**

**1.0 GENERAL**

SN	Particulars	Details
1	Name of the Mine	Narmada Cement Mines
1(a)	Name of the inspecting officer	Naman Ekka, SMG, 08/09/2021
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total ML area -565.9398 Ha. Forest land -177.25 Ha. Non Forest land – 388.6898 Ha.
3	Minecode	<b>38GUJ02004</b>
4	IBM Registration Number under rule 45 of MCDR, 1988	<b>IBM/ 441/2011</b>
5	Name of the lessee, Address, phone, email and fax number	M/s. UltraTech Cement Limited, Narmada Cement- Jafarabad works P.B. No: 10, Jafarabad – 365 540, Dist. Amreli, Gujarat Tel: (02794) 245105 / 145113 / 245121 Fax: (02794) 245109 / 245110.
6	Village	Babarkot
7	Taluka/Mandal	Jafarabad
8	District	Amreli
9	Pincode	365540
10	State	Gujarat
11	Post office	Jafarabad
12	Nearest police station	Jafarabad
13	Nearest Railway station	Rajula- Junction
14	Date of Grant of Mining Lease	25.09.1978
15	Date of Execution	02.01.1979
16	Date of opening of Mine	15.10.1981
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	18.09.1997
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. K.C. Jhanwar UltraTech Cement Limited, Ahura Centre, “B” Wing, 2 <sup>nd</sup> Floor, Mahakali Caves Road, Andheri (E), Mumbai – 400093, Phone No.: (022) – 66917800 E-Mail: - <a href="mailto:occupierutcl@adityabirla.com">occupierutcl@adityabirla.com</a> Fax: - 02794 – 245357 Date of appointment - 09.11.2018
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Rajendra Kumar Goyal, B.E. Mining with FCC (R)  Narmada Cement- Jafarabad Works Village – Babarkot Taluka – Jafarabad Dist. – Amreli 365540 Mobile – 8003895390 Email- <a href="mailto:rajendra.goyal@adityabirla.com">rajendra.goyal@adityabirla.com</a> Date of Appointment – 21.10.2019.
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Abhishek Bhardwaj, B.E. Mining with FCC (R)  Narmada Cement- Jafarabad Works Village – Babarkot Taluka – Jafarabad Dist. – Amreli 365540 Mobile – 9826429066

SN	Particulars	Details
		Email- <a href="mailto:abhishek.bhardwaj@adityabirla.com">abhishek.bhardwaj@adityabirla.com</a> Date of Appointment – 20.11.2020.
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Rasik Padashala, B.E. Mining with SCC (R)  Narmada Cement- Jafarabad Works Village – Babarkot Taluka – Jafarabad Dist. – Amreli 365540 Mobile – 9574211176 Email- <a href="mailto:rasik.padashala@adityabirla.com">rasik.padashala@adityabirla.com</a> Date of Appointment – 24.08.2018 B.E. (Mining Engineer) Experience – 7 years
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Geologist appointed: Mr Hemant Kumar Dhankar, M.Tech with applied geology  Date of appointment: - 27.03.2018
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Scheme approved vide letter no.  <b>684(4)(1)/MP-188/2018-GNR</b> Approval Date: 10.01.2019 Period from 01.01.2019 to 31.03.2023
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Mining Scheme approved vide letter no.  <b>684(4)(1)/MP-188/2018-GNR</b> Approval Date: 10.01.2019 Period from 01.01.2019 to 31.03.2023
27	Mineral(s) granted in lease and proved for mining	Limestone & Marl
28	Method of Mining (Opencast, Underground)	Opencast
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

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	NIL	No any backlog of previous year
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	No any exploration carried out during the year.	No any backlog of previous year
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	No any exploration carried out during the year.	No Proposal in approved mining plan.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	No any exploration carried out during the year.	Total 185.47 Ha. Area is balanced & to be explored.
1e	Balance reserves as on 01.04.2021	111 – 13.168 121&122 – 0 211 – 18 221/222 – 6.59 331-334 – 43.92*	111 – 13.168 121&122 – 0 211 – 18 221/222 – 6.59 331-334 – 43.92*	(*Resources includes CRZ & Forest area)
1f	General remarks of inspecting officer on geology, exploration etc.	No Exploration work carried out in 2020-21		

## 2.0 Development

SN	Item	Proposals			Actual work				Remarks	
2a	Location of development w.r.t. lease area	North Block: -			North Block: -				EC for 2.3 Million Metric Tonne, Production & Despatch for the FY 2019-20 is *1.253 Million Metric tonne. (* Production of mineral is as per plant requirement.)	
		Bench Floor (mRL)	Grid Reference		Quantity (in MnT)	Bench Floor (mRL)	Grid Reference			Quantity (in MnT)
			EW	NS			EW	NS		
		24	74895	23108	185112	24.9	74895	231		170750
		20	0 to	90 to	157404.6	20.2	0 to	089		125554
		8	75020	23120	313870.5	8.2	75020	0 to		280370
		8	0	50	243741.6	7.8	0	231 205 0		175186
		East Block: -				East block: -				
		Bench Floor (mRL)	Grid Reference		Quantity (in MnT)	Bench Floor (mRL)	Grid Reference			Quantity (in MnT)
			EW	NS			EW	NS		
		8	75240	23102	183780	7.8	75240	231		155569
		8	0 to	00 to	548100	8.5	0 to	020		245430
		14	75350	23110	106227	14.3	75350	0 to		100240
		0	0	00	61920	2.0	0	231 100 0		0
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	5 benches proposed at North block and 3 surface miner pits proposed at Eastern block.			5 benches at North block, 3 surface miner pits proposed at Eastern block.				No deviation from mining plan.	
2c	Stripping ratio or ore to OB ratio	1:00.00			1:0.012				Slight OB handled for advancement of working face.	
2d	Quantity of topsoil generation in m3	Soil removed is directly used for plantation purposes.			No top soil encountered at advancement of existing working face.				No deviation from mining plan.	
2e	Quantity of overburden generation in m3	Major working is confined in the already developed area and a very low lateral movement into fresh areas due to CRZ and Forest.			15634 MT				Removed low grade material used for bund preparation.	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of the PIT is as per approved MP.								

## 3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	05 benches in North block & 03 SM Pits in Eastern block	05 benches in North block & 03 SM Pits in Eastern block	No deviation and work carried out as per proposal.
3b	Quantity of ROM mineral production proposed	1.8 Million Metric Tonnes	1.253 Million Metric Tonnes	Less production of ROM is as per Cement Plant's requirement.
3c	Recovery of	100 % Utilization	100 % Utilization	No deviation from

SN	Item	Proposals	Actual work	Remarks
	saleable/usable mineral from ROM production			proposal.
3d	Quantity of mineral reject generation	No proposal	No reject generation during the year.	No deviation from proposal.
3e	Grade of mineral reject generation and threshold value declared	No proposal	No reject generation during the year.	No deviation from proposal.
3f	Quantity of sub-grade mineral generation	No proposal	No sub-grade generation during the year.	No deviation from proposal.
3g	Grade of sub-grade mineral generation	No proposal	No sub-grade generation during the year.	No sub-grade mineral has been generated.
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	NIL	Mineral marl has been intermixed with L/S and Marl & it 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 with low grade material to conserve the mineral and utilise 100% without rejection. Also, to meet the quality as per plant requirement, high grade domestic and imported sweetener is purchased.
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting proposed in North block.  East block is operated through surface miner.	Drilling and blasting carried out in North block only.  East block is operated through surface miner.	No deviation from mining plan.
3k	Provision of mining machineries in mineral benches	Surface miner, Loader, excavator, Drill, dumper, tipper & dozer is proposed.	Surface miner, Loader, excavator, Drill, dumper, tipper & dozer is used.	No deviation from mining plan.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches in Mineral, proposed is 6 meter in North block. Width of benches 4.5 Meter to 6.0 Meter. No proposal for overburden benches.	Maximum bench height in mineral maintained 06 meter in North block. Width of benches is maintained more than 6.0 Meter in North block.	No deviation from mining plan.
3m	Total area covered under excavation/pits	267.930 Ha. Area was proposed.	267.930 Ha. Area covered under excavation.	No deviation from mining plan.
3n	Ore to OB ratio for the pit/mine during the year	1:0.000	1:0.012	Major working is confined in the already developed area and a very low lateral movement into fresh areas due to CRZ and Forest.
3o	Total area put in use under different heads at the end of year	Below mentioned area was proposed put in use in different heads: Pit- 267.03 Ha. Dump/soil – 0.00 Ha.	Below mentioned area was actually put in use for different heads: Pit- 267.93 Ha. Dump/soil - 0.00 Ha.	No deviation from mining plan.

SN	Item	Proposals	Actual work	Remarks
		Others - 90.030 ha (Occupied by Plants/Buildings)	Others - 90.030 ha (Occupied by Plants/Buildings)	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2016-17 – 2.3 MnT Yr-2017-18 – 2.3 MnT Yr-2018-19 – 2.3 MnT Yr-2019-20 – 1.8 MnT Yr-2020-21 – 1.8 MnT	Yr-2016-17 – 1.53 MnT Yr-2017-18 – 1.45 MnT Yr-2018-19 – 1.45 MnT Yr-2019-20 – 1.49 MnT Yr-2020-21 – 1.25 MnT	Production of ROM is depends on Cement Plants requirement.
3q	General remarks of inspecting officer on method of mining etc.	Method of Mining adopted is as per approved MP.		

#### **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 given in mining plan for overburden or mineral rejects or top soil.	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.	Top soil generated was directly used for afforestation purpose. OB generated was used for berm & haul road strengthening purpose.	No deviation from mining plan.
4c	Number of dumps within lease area and outside lease area	No Proposal given in mining plan.	No dumps made during the FY 2020-21.	No deviation from mining plan.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	No dump made.	No deviation from mining plan.
4e	Number of active & alive dumps	No Proposal	No dump made.	No deviation from mining plan.
4f	Number of dead dumps	No Proposal	No dump made.	No deviation from mining plan.
4g	Number of dumps stabilised	No Proposal	No dump made.	No deviation from mining plan.
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	No retaining wall or garland drain made.	No deviation from mining plan.
4i	Length of Retaining wall or garland drain all along dump.	No Proposal	No retaining wall or garland drain made.	No deviation from mining plan.
4j	Number of settling ponds	No Proposal	No dump made.	No deviation from mining plan.
4k	Specific comments of inspecting officer	No solid waste generated and dumped.		

#### **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 Proposal	No backfilling done in FY 2020 – 21.	No deviation from mining plan as full extraction of mineral from mine

				out area is remaining.
5b	Area under backfilling of mined out area	No Proposal	NIL	No deviation
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	NIL	No deviation
5d	Total area fully reclaimed & rehabilitated	Plantation proposed on 1.60 Ha. Area during FY 2020-21	Plantation carried out on 1.60 Ha. Area during FY 2020-21	Improvement in existing green belt.
5e	General remarks of inspecting officer on backfilling, reclamation etc	No solid waste generated and backfilled in 2020-21.		

### **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 to submit as per RULE 23 (E) (2).	Submitted vide letter no. UTCL/JFD/MN/IBM/21-22/569 on dated 01.05.2021.	Status given in annual report against the proposal given in PMCP.
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	1.60 Ha. Area as per mining plan.	1.60 Ha. Is reclaimed by plantation.	Improvement in existing green belt.
6c	Afforestation done (ha)	1.60 Ha. Proposed for afforestation.	1.60 Ha. Area is used for plantation.	Improvement in existing green belt.
6d	No. of saplings planted during the year	Proposal given for 3000 Saplings.	10290 Sapling planted during the year 2020-21.	Peltaforum and Cassia species are planted.
6e	Cumulative no. of plants	No data given in mining plan.	Since the inception of mines about 297160 saplings planted.	Survival rate is about 73%.
6f	Any other specific method of rehabilitation	No proposal given	No other method adopted	No deviation from mining plan.
6g	Cost incurred on watch & care during the year	Rs. 2.0 lakhs rupees is proposed in mining plan for the year 2020-21	Rs. 15.44 lakhs is spent for plantation after care expenses during the year 2020-21	Three years contract has been awarded for plantation and after care. Also after three years, yearly once maintenance will be done.
6h	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D)	No proposal in mining plan.	No backfilling done.	No deviation from mining plan.
6i	Compliance on reclamation and rehabilitation by backfilling ii) Void filled by waste/tailings	No proposal in mining plan.	No backfilling done.	No deviation from mining plan.

SN	Item	Proposals	Actual work	Remarks
6j	Compliance on reclamation and rehabilitation by backfilling iii) Afforestation on the backfilled area	No proposal in mining plan.	No afforestation over any backfilling done.	No deviation from mining plan.
6k	Compliance on reclamation and rehabilitation by backfilling iv) Rehabilitation by making water reservoir	No proposal in mining plan.	No any water water reservoir made.	No deviation from mining plan.
6l	Compliance on reclamation and rehabilitation by backfilling v) Any other specific means	No proposal in mining plan.	No backfilling done.	No deviation from mining plan.
6m	Compliance of Rehabilitation of waste land within lease i) Afforestation	1.60 Ha area was proposed for afforestation.	1.60 Ha. Area actually used for afforestation.	Improvement in greenbelt.
6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	No proposal in mining plan.	No backfilling done.	No deviation from mining plan.
6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	No proposal in mining plan.	No backfilling done.	No deviation from mining plan.
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. 1. Half yearly monitoring done in core zone and quarterly monitoring done in buffer zone. 2. The Quarterly Compiled Report is being submitted to IBM	All the compliances are compiled as per mining plan and submitted to IBM on quarterly basis. (I.e. April – 2021 to June – 2021 data submitted vide letter no. <b>NCJW/ENVT-RET/2021-22/608 on dated 10<sup>th</sup> July, 2021.</b>	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	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1.8 Million Tonne ROM was proposed during FY 2020-21.	1.253 Million Tonne was produced.	No sorting was proposed in mining plan and 100 % captive utilisation of mineral is being done.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No mineral sorting proposal in mining plan.	No mineral sorting is done.	Marl intermixed with limestone and cannot be segregated. 100% captive utilised by blending with high grade.
7c	Different grade of mineral sorted out at mines	No mineral sorting proposal in mining plan.	No mineral sorting is done. 100% mineral extracted by mechanised method is crushed directly and dispatched to cement plant.	Marl intermixed with limestone and cannot be segregated. 100% utilised by blending with high grade.
7d	Any beneficiation	No beneficiation is	No beneficiation is	No deviation from mining plan.

	process at mines	proposed in the mining plan.	carried out.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation issue reported.		

### 8.0 Environment

SN	Item	Proposals	Actual work	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.	Soil removed and utilised for plantation.	No deviation from mining plan.
8b	Concurrent use or storage of topsoil	No proposal given in mining plan.	No top soil stored during the year 2020-21	No deviation from mining plan.
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 deviation from mining plan.
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.	No deviation from mining plan.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration proposed in mining plan over 1.60 Ha area.	Phased restoration by mean of plantation in mines over 1.60 Ha area.	No deviation from mining plan.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No any additional plantation proposed in mining plan.	No any additional plantation done.	No deviation from mining plan.
8g	Survival rate	No details given in mining plan	84 % (Survival rate in the FY 2020-21)	3 year contract awarded for after care and guarding of plants.
8h	Water sprinkling on roads to control airborne dust	Water tankers are proposed for water sprinkling on roads.	Water sprinkling carried out on the haul road round the clock.	No deviation from mining plan.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is good.		

### 9.0 Compliance of Rule 45

SN	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	Monthly Return submission on time. Annual Return submitted up to- 2020-21 submitted on June 30 <sup>th</sup> , 2020.		No deviation.
SN	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer – Rasik Padashala Geologist – Hemant Dhankar Manager – Bharat Gokharu.		
9c	Scrutiny of Annual return on land use	Details of land use pattern is given as on 01.04.2020,		The total open up area



SN	Item	COMMENTS	Remarks
	pattern for area under pits, reclaimed area, dumps etc.	Open Pit: 267.930 Ha. Reclaimed area: 42.850 Ha. Plant building, roads: 90.030 Ha. Dump: NIL.	is given in Pit, which includes forest area also.
9d	Scrutiny of Annual return on afforestation	Afforestation details area given: Within lease area: 10290 saplings planted with 84% survival Outside lease area: 1562 saplings planted with survival 99 %.	Outside lease area includes, colony, Cement Plant and nearby surrounding villages.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No mineral rejects given in annual return.	No mineral rejects available in mines. 100% of mineral utilised with proper blending.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No stocking of Mineral – Limestone and Marl.	Marl is intermixed with limestone and cannot be segregated.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine Price and production cost of Rs. 226.52/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 only.
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 annual return.	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