

**MCDR INSPECTION REPORT****1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation ,Accompanying Officer	Rajesh Kumar Das (Sr. Asst. Controller of Mines) Shri Mayank Saini, Mining Engineer & Mine Manager
2	Date of inspection	29.01.2019
3	Name of the Mine	Rawan-Jhipan Limestone Mine
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	Lease area – 722.834 hect, Non Forest area – 722.834 hect, Forest Area – 0 Hect.
5	Mine Code	38MPR28018
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/441/2011
7	Name of the lessee, Address, phone, email and fax number	Name - M/s UltraTech Cement Limited Address - ‘B’ Wing, Ahura Centre 2 <sup>nd</sup> floor, caves Road, Andheri (E), Mumbai 400093 Fax No - 02266928109 Phone No- 02266917800 Email - <a href="mailto:ajit.ostwal@adityabirla.com">ajit.ostwal@adityabirla.com</a>
8	Village	Rawan
8	Taluka/Mandal /District	Simga, BalodaBazarBhatapara
10	State	Chhattisgarh
11	Post office & PIN	493196
12	Nearest police station	Suhela
13	Nearest Railway station	Bhatapara
14	Date of Grant of Mining Lease	01.11.1993
15	Date of Execution	04.12.1993
16	Date of opening of Mine	05.02.1994
17	Date of first Renewal, if applicable and its period & expiry	Not applicable
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	<b>Mr.K.C. Jhanwar</b> UltraTech Cement Limited Ahura Centre, A Wing, First Floor, Mahakali Caves Road, Andheri East, Mumbai 400093 Email: <a href="mailto:ajit.ostwal@adityabirla.com">ajit.ostwal@adityabirla.com</a> Phone No.: 022-66917421 Date of Appointment – 19/10/2018
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri K. C. Jain UltraTech Cement Ltd. Hirmi Cement Works, PO – Hirmi, Dist. BalodaBazar- Bhatapara 09904201127 Phone - 07726281217/18/19/20/21 Fax - 07726-281572

		Kushal.jain@adityabirla.com DOA: 28.11.2017
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Mayank Saini RawanJhipan Limestone Mine Grasim ViharRawan, Tahsil – Simga, District – Baloda Bazar Bhatapara (Chhattisgarh) Email – <a href="mailto:mayank.saini@adityabirla.com">mayank.saini@adityabirla.com</a> Phone no – 9669074604 Date of Appointment – 06/05/2018

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Mayank Saini Qualification – BE (Mining) Total Experience – 14 years Address - RawanJhipan Limestone Mine Grasim ViharRawan, Tahsil – Simga, District – Baloda Bazar Bhatapara (Chhattisgarh) Email – <a href="mailto:mayank.saini@adityabirla.com">mayank.saini@adityabirla.com</a> Phone no - 9669074604 Date of Appointment – 01/10/2018
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56&57 of MCDR, 2017.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Approval of Modified Mining Plan 17.11.2017 and valid up to March 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.	Not applicable
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Fully mechanized
30	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	08	12	
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	

1c	Exploration Agency & Expenditure in lakh Rupees during the year	NIL	Central Drilling Associates Rs.941175/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2018		148	
1f	General remarks of inspecting officer on geology, exploration etc.	The limestone deposit of the present area belongs to Chandi formation of Raipur group in the Chhattisgarh basin. The litho units are horizontal to gentle dipping. The area is broadly explored in G1 category as per UNFC.		

### **2.0 Development**

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	North, South and West direction wrt. Lease/pit	North, South and West direction wrt. Lease/pit	
2b	Separate benches in topsoil, overburden and mineral (Rule 13 of MCDR, 2017)	Separate benches in topsoil, overburden and mineral	Complied	
2c	Stripping ratio or ore to OB ratio	1:0.27	Broadly as per proposal	
2d	Quantity of topsoil generation in m3	38600	43025	
2e	Quantity of overburden generation in m3	722222	405328	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is broadly as per proposal.		

### **3.0 Exploitation**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	75,00,000 MT	63,94,060 MT	
3c	Recovery of salable/usable mineral from ROM production	94 %	99.9%	
3d	Quantity of mineral reject generation	6 %	0.1%	
3e	Grade of mineral reject generation and threshold value declared	CaO (in reject) - 26.8 % CaO (threshold) – 34%	Screen reject generation FY 2017-18- 7512MT	
3f	Quantity of sub-grade mineral generation	100,000	Nil	Low grade material is blended
3g	Grade of sub-grade mineral generation	CaO- 36.17 %	Sub Grade mineral generation & Consumption FY 2017-18- 72413MT	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	Drilling & Blasting Proposed	Complied	
3k	Provision of mining machineries in mineral benches	Shovel Dumper	Complied	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	200.31	178.75	
3n	Ore to OB ratio for the pit/mine during the year	1:0.27	1:0.114	
3o	Total area put in use under different heads at the end of year	Pit-207.66 Waste/reject Others-55.77	216.85	
3p	Production of ROM mineral during last five-year period, as applicable (In Metric Tonnes)	Yr-2013-14: 7500000  Yr-2014-15: 7500000  Yr-2015-16: 7500000  Yr-2016-17: 7500000  Yr-2017-18: 7500000	Yr-2013-14: 3720613  Yr-2014-15: 5132648  Yr-2015-16: 5773563  Yr-2016-17: 6298723  Yr-2017-18: 6394060	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is by open cast using shovel-dumper combination and with deep hole drilling and blasting. The method of mining is broadly as per proposal.		

#### **4.0 Solid Waste Management-Dumping**

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37 of MCDR, 2017)	Separate dumping of Topsoil, OB & mineral reject is	Complied	

		proposed		
4b	Location of topsoil, OB & mineral reject dumps	Location of Topsoil, OB & reject dump is earmarked in Mining plan	Dumping of Topsoil, OB & Reject is dump at earmarked area.	
4c	Number of dumps within lease area and outside lease area	06 No of dumps within lease area	06 Nos. dumps within lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14 of MCDR, 2017)	Outside the ultimate pit	Complied	
4e	Number of active & alive dumps	03	03	
4f	Number of dead dumps	03	03	
4g	Number of dumps stabilised	01	01	(Stabilized in earlier year)
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	3708 mtr available along the dump
4j	Number of settling ponds	Nil	Nil	2 Nos. provided
4k	Specific comments of inspecting officer on waste dump management	The waste dump management is broadly as per proposal.		

### **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	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36 of MCDR, 2017)	Based on the availability – used for spreading for Plantation	Spread at lease boundary for plantation	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	2.68 hect fully reclaimed and rehabilitated (Proposal for yr 2017-18 – Nil)

5e	General remarks of inspecting officer on backfilling, reclamation etc	Area is not matured for backfilling.
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### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2) of MCDR, 2017. Details should be given in the format as given in Annexure-20.	Yes	Yes	
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	Nil	Nil	
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	Nil	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 2500 nos ii) Plantation	i) 5032nos ii) Plantation	Replantati on done in the year 2017-18
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring of ambient air, water, noise level, Ground vibration	Monitoring done as per norms	
6f	General remarks of inspecting officer on PMCP compliance & progressive	complied		

### 7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM-7.5 million Ton	Based on software & blast hole sampling result different grade material has been marked at site/map/blend plan.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines	Based on software different grade material has been marked in slice plan.	Based on software & blast hole sampling result different grade material has been marked at site/map/blend plan.	
7d	Any beneficiation process at mines	As such, limestone beneficiation is not required except for screening the clayey-soil in the top bench.	Screening (dry Separation) is being done to separate clayey-soil & shale in the limestone before crushing. By using pet cock the quality requirement of plant was decreases hence screen generation was also decreases during the year.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no beneficiation of limestone except crushing and screening.		

### 8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	Complied – top soil utilized for plantation	
8b	Concurrent use or storage of topsoil	Concurrent use (based on the available area ) proposed	Top soil used concurrently	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden, waste rock, rejects is proposed	Complied	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44 of MCDR, 2017)		Plantation done as per approved species by DFO.	
8g	Survival rate		78 %	
8h	Water sprinkling on roads to control airborne dust	28KL and 10KL taker proposed for Water sprinkling on roads	Water sprinkling on roads is being done by 28KL and 10KL tanker to control airborne dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	No adverse impact observed on aesthetic beauty due to mining.		

#### **9.0 Compliance of Rule 45**

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto- January 2019 A.R. submitted upto-2017-18	

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	yes	Mining Engineer- Shri Mukesh Kumar Thawait, Geologist- Shri Prateek Jha and Manager- Shri P K Upadhay	During visit the Manager Chaged and now Shri Mayank Saini is Manager
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Covered under O/C working-176.976 ha., Reclaimed Rehabilitated-2.678 ha., Waste dump- 27.020 ha., Infrastructure-8.0 ha.	
9d	Scrutiny of Annual return on afforestation	5032 nos within lease		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	7512 tons of CaO 25%		



9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price & production cost is 198.16 Rs		Captive mine for Cement Plant.
9i	Scrutiny of Annual return on fixed assets	Rs 275330125/-		
9k	Scrutiny of Annual return on mining machineries	Hydraulic Shovel of 6.6 & 4.0 cu.m., Backhoe of 3.20 cu.m., Front End Loader of 5.0 cu.m, Dumper 35 & 60 tons, Drill m/c of 152 mm & 115 mm, Dozer 350HP		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - There is no serious violation found as the modified Mining Plan approved on dated 17/11/2017 for the proposed period 2018-19 to 2022-23. The Earlier violation complied.