

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION
MCDR Inspection REPORT
Jabalpur Regional office

Mine code: 38MPR12075

(i)	Name of Inspecting officer	:	Shri Sudip Ranjan Mazumdar
(ii)	Designation	:	Senior Mining Geologist
(iii)	Accompanying mine official with Designation	:	Shri Rahul Gopalia (Mines Manager) & Shri Arun Kumar Behera (Geologist)
(iv)	Date of Inspection	:	11.10.2023
(v)	Previous Inspection date	:	23.11.2022

PART-I : GENERAL INFORMATION

1	(a)	Mine Name	:	Sitapuri Limestone Mine
	(b)	Registration Number	:	IBM/441/2011
	(c)	Category	:	A category, Fully Mechanized
	(d)	Type of Working	:	Opencast
	(e)	Postal address	:	
		State	:	Madhya Pradesh
		District	:	Dhar
		Village	:	Sitapuri, Udiyapura, Borlai, Avaral, Andiyav and Chirakhan
		Taluka	:	Manawar
		Post Office	:	Manawar
		Pin code	:	454446
		Fax	:	NA
		email	:	vijay.chhabra@adityabirla.com
		Phone No	:	90900 99501
	(f)	Police Station	:	Manawar
	(g)	First Opening date	:	29.09.2017
	(h)	Weekly day of rest	:	SUN
2		Address for Correspondence	:	
3	(a)	Lease Area	:	965 Hectare
	(b)	Period of lease	:	50 years
	(c)	Date of Expiry	:	08.05.2064
4		Mineral Worked (Main)	:	Limestone
5		Name of address of the Lessee with Phone, email and fax number	:	M/s UltraTech Cement Limited. 'B' Wing Ahura Center, 2nd Floor, Mahakali caves Road, Andheri (E), Mumbai-400093, (Maharashtra) Email: kailash.jhanwar@adityabirla.com Phone: 022- 66917421
		Name of address of the Owner/Nominated Owner with Phone, email, fax number and Date of appointment	:	Shri Kailash Chandra Jhanwar M/s UltraTech Cement Limited, 'A' Wing Ahura Centre, 1st Floor, Mahakali Caves Road, Andheri (East), Mumbai-400 093, (Maharashtra), Phone No. – 022- 66917421 Email Id: kailash.jhanwar@adityabirla.com Date of appointment: 19-10-2018

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	Name of address of the Agent with Phone, email, fax number and Date of appointment	:	Shri Vijay Chhabra UltraTech Cement Limited, (Unit-Dhar Cement Works) Village: Tonki, Post Office: Manawar, Tehsil: Manawar, Dist.: Dhar, Madhya Pradesh-454446 Mob No- 90900 99501, Fax No- NA Email- vijay.chhabra@adityabirla.com Date of appointment:29-09-2017
	Name of address of the Manager with Phone, email, fax number and Date of appointment	:	Shri Rahul Gopalia UltraTech Cement Limited, (Unit-Dhar Cement Works) Village: Tonki, Post Office: Manawar, Tehsil: Manawar, Dist.: Dhar, Madhya Pradesh-454446 Mob No- 7069091169, Fax No- NA Email- rahul.gopalia@adityabirla.com Date of appointment: 25-02-2023
	Mining Engineer Name Qualification Date of Appointment	:	Shri Rahul Gopalia B. E (Mining) Date of appointment: 25-02-2023
	Geologist Name Qualification, Date of Appointment	:	Shri Arun Kumar Behera, M.Sc. Geology Date of appointment: 08.03.2022
6	Date of approval of Mining Plan/Review of Mining Plan etc.	:	MP/Dhar/Limestone/MPLN-19/2020-21 Jabalpur dated 12/02/2021

PART- II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS**Exploration: (2022-23)**

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	In 2021-22, 54 nos of boreholes were proposed for drilling	In 2020-21 – 03 bore holes and in 2021-22, 51 nos of bore holes were drilled	Nil
1b	Exploration over lease area for Geological axis 1 or 2	Not proposed	Nil	Nil
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Nil	Nil
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	Not proposed	Entire lease area has been explored under G1 level of exploration.	Nil
1e	Balance reserves as on 01.04.2023	At the beginning of the year 1.4.2022, reserves were 116.00 million tones.	Depletion during the year was 5.0 million tones. Balance reserves as on 31.03.2023 is 111 million tones.	Nil
1f	General remarks of Inspecting officer on geology, exploration etc.	There is no backlog is exploration proposal. Entire lease area has been explored under G1 level of exploration.		

Development (2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Development proposed between coordinates 511574 to 512511E & 2470311N to 2471320N	Development carried out between coordinates 511534 to 512486E, & 2470338N to 2471316N	Nil

2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in overburden and mineral proposed	Separate benches in overburden and mineral maintained	Nil
2c	Stripping ratio or ore to OB ratio	1:0.45	1:0.40	Nil
2d	Quantity of topsoil generation in m3	In 2022-23, the proposal for top soil generation was 240700 cum	In 2022-23, actual top soil generation 103040 Cum	The compliance of top soil and overburden generation during the year 2022-23 has been reviewed in the Review of Mining plan approved dated 10/11/2023 for the period 2024-2025 to 2028-2029
2e	Quantity of overburden generation in m3	In 2022-23, the proposal for overburden generation 1248810 Cum	In 2022-23, actual overburden generation was 678542 Cum	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development work carried out within the proposed limits.		

3. Exploitation FY (2022-23)

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	One Pit	One Pit	Nil
3b	Quantity of ROM mineral production proposed	In 2022-23, the proposal for ROM generation was 6200000 tones	In 2022-23, actual ROM generation was 4227540 tones	The compliance of ROM generation during the year 2022-23 has been reviewed in the Review of Mining plan approved dated 10/11/2023 for the period 2024-2025 to 2028-2029
3c	Recovery of Salable/usable minerals from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	Not Proposed	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	Nil	Nil
3f	Quantity of sub-grade mineral generation	Not Proposed	Nil	Nil
3g	Grade of sub-grade mineral generation	Not Proposed	Nil	Nil
3h	Manual / Mechanized method adopted for segregation from ROM	Not Proposed	Nil	Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Proposed	Carried out	Nil
3k	Provision of mining	Proposed	Carried out	Nil

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	machineries in mineral benches				
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Nil	
3m	Total area covered under excavation / pits (Ha.)	82.82 Ha	77.086 Ha	Nil	
3n	Ore to OB ratio for the pit/mine during the year	1:0.45	1:0.40	Nil	
3o	Total area put in use under different heads at the end of year	Total area put in use under different heads at the end of plan period 2023-24 is 150.20 Ha	Total area put in use under different heads at the end of plan period 2023-24 is 138.74 Ha	Nil	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19	36,60,000 MT	26,01,287 MT	Nil
		2019-20	36,60,000 MT	25,32,857 MT	
		2020-21	36,60,000 MT	26,89,184 MT	
		2021-22	42,50,000 MT	34,31,406 MT	
		2022-23	62,00,000 MT	42,27,540 MT	
3q	General remarks of inspecting officer on method of mining etc.	Mechanized opencast method of mining practiced with excavator/dumper combination			

4. Solid Waste Management-Dumping (2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No OB and mineral reject dump proposed. Top soil shall be scrapped and transported to temporarily stacked/dumped.	There is no OB or mineral reject dump. Top soil is separately stacked and partially utilized for plantation purpose.	Nil
4b	Location of topsoil, OB & mineral reject dumps	No OB and mineral reject dump proposed. Top soil shall be scrapped and transported to temporarily stacked/dumped.	Done as per proposal	Nil
4c	Number of Dumps within lease area and outside lease area	Not Proposed	Nil	Nil
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	Nil	Nil
4e	Number of Active & Alive dumps	Not Proposed	Nil	Nil
4f	Number of dead dumps	Not Proposed	Nil	Nil
4g	Number of dumps established	Not Proposed	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	100 mtr. Retaining wall & 100 Mtr Garland Drain was constructed around top soil stack	Nil
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	100 mtr. Retaining wall & 100 Mtr Garland Drain was constructed around top soil stack	Nil
4j	Number of settling ponds	Not Proposed	1 No. settling pond has been	Nil

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			constructed at end of the garland drain.	
4k	Specific comments of inspecting officer on waste dump management	Sold waste management has been done as per proposal.		

5. Solid Waste Management-Backfilling (2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Full Extraction of Mineral before starting backfilling	Mineral fully extracted and done backfilling on mined out area.	Nil
5b	Area under backfilling of mined out area	13.16 Ha	13.66 Ha.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Top soil stacked and partially utilized for plantation purpose	Nil
5d	Total area fully reclaimed & rehabilitated (Ha)	Not Proposed	Nil	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mineral fully extracted and done backfilling on mined out area.		

6. Progressive Mine Closure Plan (2022-23)

S.N.	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	Yes, PMCP before 1 st of July of every year.	Yes, PMCP has been submitted timely along with annual return	Nil
6b	Area available for rehabilitation (Ha)	10 Ha within safety zone of canal etc. and along ML boundary within ML selected for green belt development	21.95 Ha	Nil
6c	Afforestation done (ha)	10 Ha within safety zone of canal etc. and along ML boundary within ML selected for green belt development	21.95 Ha	Nil
6d	No. of saplings planted during the year	15000 Nos of saplings proposed for plantation	40500 Nos of saplings planted	Nil
6e	Cumulative no. of plants	Not Proposed	63711 Nos of saplings planted	Nil
6f	Any other specific method of rehabilitation	Not proposed	Nil	Nil
6g	Cost incurred on watch & care during the year	Not proposed	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	900X850X12 (Pit-1) An area of 13.16 Ha is proposed to backfilled during this period	9.53 ha backfilled during the year & cumulative 13.66 ha. area is backfilled.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Void filled by waste	Void filled by waste	Nil
6j	Compliance on reclamation	Not proposed	Nil	Nil

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	and rehabilitation by backfilling (iii) Afforestation on the backfilled area.			
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Not proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Not proposed	Nil	Nil
6m	Compliance of Rehabilitation of waste land within lease (i)Afforestation	10 Ha	21.95 Ha	Nil
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	10 Ha within safety zone of canal etc. and along ML boundary within ML selected for green belt development	21.95 Ha	Nil
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation	Nil
6p	Compliance of Environment monitoring (core zone & buffer zone)	Proposed	Carried out	Nil
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	PMCP report has been submitted timely along with annual return.		

7. Mineral Conservation (2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM Mineral Dispatch	ROM Mineral Dispatch	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Proposed	Nil	Nil
7c	Different grade of mineral sort out at mine	Cement Grade	Cement Grade	Nil
7d	Any beneficiation process at mines	Not proposed	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Carried out as per proposal.		

8. Environment (2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Separate removal of topsoil proposed	Separate removal of topsoil carried out	Nil
8b	Concurrent use or storage of topsoil	Top soil shall be scrapped and transported to temporarily stacked/dumped.	Top soil is separately stacked and partially utilized for plantation purpose.	Nil
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not proposed	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dump	Proposed	Carried out	Nil

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	for restoring the land to its original use			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	15000 Nos of saplings proposed for plantation	40500 Nos of saplings planted	Nil
8g	Survival rate	Not Specified	85%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is maintained.		

9. Compliance of Rule 45 (2022-23)

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Annual return for 2022-23 has been submitted timely.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Geologist and Manager have been appointed	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area Under Mining: 77.086 Ha, Reclaimed-Rehabilitated: 13.66 Ha, Infrastructure: 7.774 Ha etc.	Nil
9d	Scrutiny of Annual return on afforestation	40500 Nos of saplings planted	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Closing stock of ROM is Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Cost of Production is Rs 173.63 per tonne	Nil
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets is Rs 2666767004	Nil
9k	Scrutiny of Annual return on mining Machineries	Backhoe 6 No, Drill Machine 2 No, Dozer 3 No, Dumper 15 nos etc.	Nil

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date:

(SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines