

MCDR INSPECTION REPORT

General

S.N.	Particulars	Details
1	File No.	CHG/RPR/LST-32/38MPR28001
2	Name of the Mine	Century Cement Limestone Mine (237.003ha)
3	Date of Inspection	18/6/2021
4	Name of Inspecting Officer	Shri B. L. Gujar (Regional Controller of Mines) Shri Rudra N. Mishra (Senior Mining Geologist)
5	Accompanying Mine Official with Designation	1. Shri B. P. Mishra Sr. Vice President 2. Shri R P S Bhatia, Mines Manager 3. Shri S K Tamrakar, Mining Engineer 4. Shri R R Pimpalkar, Geologist
6	Last date of Inspection & Officer	06/11/2020 & Shri S. Kartikeya (Junior Mining Geologist)
7	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non- forest: 237.003 hect. Forest Land: 00.00 hect. Total Land: 237.003 hect.
8	Mine code	38MPR28001
9	IBM Registration Number under rule 45 of MCDR, 2017	IBM/4952/2011
10	Name of the Lease, Address, Phone, email and fax number	M/S Ultra Tech Cement Limited, (Earlier M/s Century Textiles and Industries Ltd). Century Bhawan, Dr. Annie Besant Road, Warli, Mumbai-400030. Telephone No- +91 2224957000 Fax No- +91 2224309491 Email: -utcl_bcw.mines@adityabirla.com
11	Village	Bahesar and Tandwa
12	Taluka/Mandal	Tilda
13	District	Raipur
14	Pin code	493116
15	State	Chhattisgarh
16	Post Office	Baikunth
17	Nearest Police Station	Tilda-Neora
18	Nearest Railway Station	Tilda-Neora
19	Date of Grant of Mining Lease	04/08/1969 (For 20 years)
20	Date of Execution	04/08/1969
21	Date of opening of Mine	30/11/1971
22	Date of First Renewal, if applicable and its period & expiry	04/08/1989 to 03/08/1999 for 10 years, dated 01/09/1989.
23	Date of Second Renewal, if applicable and its period & expiry	04/08/1999 to 03/08/2019 for 20 years, dated 13/06/2002. As per section 8A of MMDR Amendment Act 2015, Captive Mining Lease has been extended for

		50 years or upto 31/03/2030 whichever is later. Extended period 4/08/2019 to 31/03/2030 Supplementary Mining lease agreement for extended period has been made on 17/01/2020. Mining lease has been transferred from Century Textiles & Industries Ltd to M/s Ultra Tech Cement Ltd on 13/12/2019.
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable.
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri K.C.Jhanwar M/s. Ultratech Cement Limited., Ahura Centre, B Wing 2 nd Floor, Mahakali Caves Road, Andheri (E) Mumbai-400093 Email-kailash.jhanwar@adityabirla.com Date of appointment – 24/08/2020
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri B.P. Mishra Ultratech Cement Limited, Baikunth Cement Works PO: Baikunth – 493 116, Distt. Raipur (C.G.) Email – bp.mishra@adityabirla.com M.No. – 9424207037 Date of appointment – 24/08/2020
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri R P S Bhatia Century Cement, PO. - Baikunth, Taluka - Tilda, District - Raipur -493116 (Chhattisgarh) Telephone No- 07721-261222 Email: - rps.bhatia@centurycement.com Date of Appointment: 11/10/2006
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Shishir Kumar Tamrakar Qualification: M. Tech & Ist class Mines Managers certificate holder. Century Cement, PO. - Baikunth, Taluka - Tilda, District - Raipur -493116 (Chhattisgarh) Telephone No- 07721-261222 Email: - s.tamrakar@centurycement.com Date of Appointment: 11/10/2006
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule 54 & 55 (MCDR 2017).	Yes, Narendra Kumar Payasi, M. Tech (Applied Geology) Century Cement, PO. - Baikunth, Taluka - Tilda, District - Raipur -493116 (Chhattisgarh) Telephone No- 07721-261222 Date of Appointment: 16/10/2008
30	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no: RAP/LST/MPLN-31/NGP Nagpur dated-19/10/1988. Modified Mining Plan approved vide letter no: RAP/LST/MPLN-31/NGP Nagpur dated-26/07/1990 Mining Plan approved vide letter no: 314(3)/98-MCCM (C)/MP Nagpur dated-17/09/1999. Proposal Period: 1999-2000 to 2003-04.
31	Date of Approval of Scheme of	1 st Scheme of Mining Plan approved vide letter no:

	Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	314(3)/2004-MCCM (C)/S-4 Nagpur dated-04/11/2004. Proposal Period: 2004-05 to 2008-09. 2 ND Scheme of Mining Plan approved vide letter no: 314(3)/2008-MCCM (CZ)/MP/MS/PMCP-32 Nagpur dated-17/07/2009. Proposal Period: 2009-10 to 2013-14. 3 rd Scheme of Mining Plan approved vide letter no: RAP/LST/MPLN-31/NGP Nagpur dated-11/06/2014. Proposal Period: 2014-15 to 2018-19. 4 th Scheme of Mining Plan approved vide letter no: RPR/LST/MPLN-1177/2018/Raipur dated-22/11/2018. Proposal Period: 2019-20 to 2023-24
32	Mineral(s) granted in lease and approved for Mining	Limestone
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
35	Captive/Non-Captive	Captive
36	Environmental Clearance	1.8 million tones (For Both Lease 237.003 ha and 74.843ha together)
37	Status of Financial Assurance as per rule 27 of MCDR, 2017	Bank guarantee of Rs 3,04,00,000/- has been submitted as Performance Security to State Govt.

Exploration

S.N.	Item	Proposals (2020-21)	Actual Work(2020-21)	Remarks
1a	Backlog of previous year	Nil	Nil	Entire ML area explored and Mineralized zone explored in G1 category.
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not given in proposal	Synergy Geotech Nagpur & Expenditure: Rs 10,43,115	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Nil	
1e	Balance reserves as on 01.04.21	Under (111): 4.37 million Tonnes Under (211): 10.1 million Tonnes		
1f	General remarks of Inspecting officer on geology, exploration etc.	The limestone deposit of Baikunth belongs to the sediments of Chhattisgarh basin which is horizontal, thick bedded and classified as stromatolitic limestone of Raipur Group. Other associated rocks are dolomitic limestone and shale. The overburden consists of hard murrum and clay with an average thickness of 1.5metres. Entire ML area explored and Mineralized zone explored in G1 category.		

Development

S. N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
2a	Location of Development w.r.t. lease area	South eastern part of the block	Same as proposal given.	No top soil is generated in mines.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	One Bench for OB & three Benches for Ore	One Bench for OB & three Benches for Ore	
2c	Stripping ratio or ore to OB ratio	1:0.19	1:0.199	
2d	Quantity of topsoil generation in m ³	Not given in Proposal	Nil	
2e	Quantity of overburden generation in m ³	194195m ³	66006m ³	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development continue as per proposal.		

Exploitation

S.N	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
3a	Number of pits proposed for production	Two pits	Two Pits	
3b	Quantity of ROM mineral production proposed (2020-21)	1000000T	330798.22T	
3c	Recovery of Salable/usable mineral from ROM production	1000000T	330798.22T	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	< 34% CaO >4% MgO	< 34% CaO >5% MgO	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	34% to 39%CaO	34% to 38%CaO	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not given in Proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB- 0.5 -3.0M. Ore- 6 -10.0M.	OB- 0.5 -3.0M. Ore- 6 -10.0M.	

3m	Total area covered under excavation /pits	119.37Ha	110.12Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.19	1:0.199	
3o	Total area put in use under different heads at the end of year	Pit-121.14 ha, Waste/Reject: 0.0 Others: 8.241ha end of scheme period.	Pit-110.120 ha Reclaimed/Rehabilitated: 7.43 ha, occupied by plant, building, residential, welfare building & roads: 8.241 ha.	
3p	Production of ROM in Tones mineral during last Five-years period, as Applicable	2016-17	1300000T	1132050.00 T
		2017-18	1300000T	1294961.76 T
		2018-19	1300000T	1298522.42 T
		2019-20	999664 T	612995.82 T
		2020-21	1000000 T	330798.22 T
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is Open cast mechanised mining with shovel and dumper combination.		

Solid Waste Management-Dumping

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Nil	Nil	No Top soil available.
4b	Location of topsoil, OB & mineral reject dumps	Backfilling	Backfilling	
4c	Number of Dumps within lease area and outside lease area	10 Dumps within ML area all dead dumps	10 Dumps within ML area all dead dumps	All dumps have been stabilized & rehabilitated by plantation. All OB and waste are being dumped at backfilling area.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	On earmarked sites.	As per proposal	
4e	Number of Active & Alive dumps	No active Dumps	No active Dumps	
4f	Number of dead dumps	10	10	
4g	Number of dumps established	10	10	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	Garland Drain 7541m and Retaining wall:1621m.
4i	Length of Retaining wall or garland drain all along dump	No Proposal	Nil	
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management	Simultaneous backfilling is carried out in the worked-out area. No active dump sites.		

Solid Waste Management-Backfilling

S.N.	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	Not in proposal	Non-Mineralised zone demarcated before started backfilling.	No top soil available.
5b	Area under backfilling of mined out area	0.6 Ha	0.31 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated during the year	Reclamation-0.6Ha Rehabilitation-0.6Ha	Reclamation-0.31Ha Rehabilitation-0.6Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The backfilling and reclamation work are broadly as per proposal.		

Progressive Mine Closer Plan

S.N .	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	Yes	Yes	
6b	Management of worked/mined out benches	0.6Ha	0.31ha	
	Area available for rehabilitation (Ha)			
	Afforestation done (ha)	0.60ha	0.31 ha	
	No. of saplings planted during the year	1200 Nos	1252 Nos	
	Cumulative no. of plants	----	165886 Nos	
	Any other specific method of rehabilitation	Not proposed	Not Available	
Cost incurred on watch & care during the year		lease wise		

6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	0.6ha 0.6 ha	114.06ha 0.31 ha 0.31ha	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	No Proposal	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	The PMCP work is broadly as per proposal. Area aesthetic beauty is increased due to dense plantation.		

Mineral Conservation

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	No Proposal	Nil	No sorting and any other beneficiation process adopted. Due to using pet coke and imported coal low grade of Limestone also consumed.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No Proposal	Nil	
7c	Different grade of mineral sort out at mine	No Proposal	Nil	
7d	Any beneficiation process at mines	No Proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No sorting and any other beneficiation process adopted. Due to using pet coke and imported coal low grade of Limestone also consumed. High grade limestone purchased from the nearby area.		

Environment

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	No Proposal	Nil	
8b	Concurrent use or storage of topsoil	No Proposal	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule	No Proposal	Nil	

	33)		
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	By Backfilling	By Backfilling
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Reclamation:0.6 ha and Rehabilitation: 0.6 ha	Reclamation:0.31 ha and Rehabilitation: 0.31ha
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	At the beginning in 1968 there was only two trees.	At present 165886 Nos of trees have been planted.
8g	Survival rate	No Proposal	97.12%
8h	Water sprinkling on roads to control airborne dust	Yes	106 Nos of sprinkler along haul road and two Nos of water tanker for water spraying on haul road.
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Environment protection measures follow as per proposal and aesthetic beauty increased around the mine area.	

Compliance of Rule 45

S. N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	M.R. Submitted up to-June-2021	
		A.R. submitted up to- 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-110.120 ha Reclaimed/Rehabilitated: 7.43 ha, occupied by plant, building, residential, welfare building & roads: 8.241 ha.	
9d	Scrutiny of Annual return on afforestation	Within Lease area: 1252 Nos Survival Rate -97.12%, Outside Lease area: 225 Nos Survival Rate -96.62%,	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	0.0 T	
9f	Scrutiny of Annual return on ROM	330798.22 T production,Opening	

	stock and/or grade ore	Stock: 0.00 T, Closing stock: 0.00 T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Rs. 562.31per ton ex-mine price and cost of production:Rs. 562.31.	
9i	Scrutiny of Annual return on Fixed assets	Rs 675733786.00as per annual return	
9k.	Scrutiny of Annual return on mining Machineries	Type of Machinery	Capacity of each Unit
		Blast Hole Drill	115.00MM
		Pumps (Elec)	733.00L/MN
		Shovel (Hydraulic)	3.900Cum
		Dumper	35.00 Tonne
		Dozer	320.00 HP
			No. of Unit
			1
			6
			2
			6
			1

Details of Violations observed during current inspection: -

No serious violation observed

A suggestion was given to lessee for increasing efficiency of development work and reducing operational cost in mines as under –

Lessee was advised to start back filling diving the fully excavated / mineout area in two-part so that lead to overburden is minimise and cost to development is reduced. By this way lead to overburden is reduced to 2 km from presently 4.0 km

Earlier violations pointed out have been complied.

Date: 14/07/2021



Name: Shri B. L. Gujar
Designation: Regional Controller of Mines.