

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office & designation	Shri R K Das, Sr ACOM Indian Bureau of Mines
2	Date of inspection	21.08.2018
3	Name of the Mine	Century Cement Limestone Mine
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non forest land - 74.843 H. Forest land - Nil ----- Total 74.843 H.
5	Minecode	38CHG14024
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4952/2011
7	Name of the lessee, Address, phone, email and fax number	M/s. Century Textiles and Industries Ltd. Century Cement, PO: Baikunth – 493 116 Distt. Raipur (C.G.) Tel.No. – 07721 261222 cc.mines@centurycement.com
8	Village	Bahesar&Tulsi
8	Taluka/Mandal /District	Taluka – Tilda, Distt.- Raipur
10	State	Chhattisgarh
11	Post office & PIN	Baikunth – 493 116
12	Nearest police station	Neora
13	Nearest Railway station	Tilda
14	Date of Grant of Mining Lease	17.09.2002
15	Date of Execution	30.09.2002
16	Date of opening of Mine	01.07.2004
17	Date of first Renewal, if applicable and its period & expiry	As per MMDR, 2015(Amendment) lease will be extended upto 50 years from execution.
18	Date of second Renewal, if applicable and its period & expiry	-
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri D.K.Agrawal M/s. Century Textiles and Industries Ltd., Century Bhawan, Dr. Annie Besent Road, Warli, Mumbai – 400 030 Tel. No. +91 22 24957000 Fax. +91 22 24309491 Email – centextho@centurytext.com Date of appointment – 01.04.2016
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri B P Mishra, Century Cement, PO: Baikunth – 493 116 Distt. Raipur (C.G.) Tel.No. – 07721 261222 Email – bp.mishra@centurycement.com

		Date of appointment – 01.08.2004
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri R P S Bhatia Century Cement, PO: Baikunth – 493 116 Distt. Raipur (C.G.) Tel.No. – 07721 261222 Email – rps.bhatia@centurycement.com Date of appointment – 11.10.2006
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Shirshir Kumar Tamrakar M.Tech Holder of 1 st Class Mines Managers Certificate of competency Century Cement, PO: Baikunth – 493 116 Distt. Raipur (C.G.) Tel.No. – 07721 261222 Email – s.tamrakar@centurycement.com Date of appointment – 11.10.2006 Total experience – 15 years
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes Name of Geologist: Narendra Kumar Payasi M. Tech. (Applied Geology) Date of appointment – 16.10.2008 Total experience – 10 years
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan – 23.04.2001 Modified Mining Plan – 14.01.2005 Vaild upto 31.03.2032.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	11.06.2014 (Period 2014-15 to 2018-19)
27	Mineral(s) granted in lease and proved for mining	Limestone
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	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2. (2017-18)	Nil	No of Holes 10(Core) Meterage 450 m	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Synergy Geotech Pvt ltd. (7.70 Lakh)	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	All the ML area has been explored
1e	Balance reserves as on 01.04.2018	54.55 Lakh tonne		
1f	General remarks of inspecting officer on geology, exploration etc.	The ML area is broadly explored in G1 category. The limestone deposit of Baikunth belongs to the sediments of Chhattisgarh basin which is horizontal, thick bedded and classified as stromatolitic of Raipur group.		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	South of ML	South of ML	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	1 Bench for OB 3 Bench for Ore	1 Bench for OB 3 Bench for Ore	
2c	Stripping ratio or ore to OB ratio	1:0.023	1:0.029	
2d	Quantity of topsoil generation in m ³		1510	
2e	Quantity of overburden generation in T.	15000	14700	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The overburden, in average found between 0.5 to 3 meters thick, comprises of clay and murrum. This is removed mechanically by dozer or shovel-Dumper combination. The high MgO stones underlying the cover of this overburden are encountered at some places. This material is drilled blasted and handled mechanically.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	648000T	646905 T	
3c	Recovery of salable/usable mineral from ROM production	500000T	499185 T	

3d	Quantity of mineral reject generation	148000 T.	147720 T	
3e	Grade of mineral reject generation and threshold value declared	<34% CaO >4% MgO	<34% CaO >4% MgO	
3f	Quantity of sub-grade mineral generation	35000 T.	36250 T	
3g	Grade of sub-grade mineral generation	34% - 38% CaO%	34% - 38% CaO%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
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	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 – 0.5-3.0 M ORE- 6-10 M.	OB – 0.5-3.0 M ORE- 6-10 M.	
3m	Total area covered under excavation/pits	-	15.20 H.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.023	1:0.029	
3o	Total area put in use under different heads at the end of year as on 01.04.2018.	-	Covered Under O/c Working :15.20 H Occupied by bldg & Strct, road. etc : 1.0 H Rehabilitated Dump :0.70 Top Soil Dump :0.12 Plantation (Virgin Land) : 15.843 Others : 41.98 H	
3p	Production of ROM mineral during last five-year period, as applicable Yr-2013-14 Yr-2014-15 Yr-2015-16 Yr-2016-17 Yr-2017-18	700000 500000 500000 500000 500000	690601.26 482912.42 497812.14 474953.54 499184.90	Production of Limestone given yearwise
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is opencast using HEMM and bench height is approx 8 meter.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	One	One	Only one top soil dump and all Waste to be dumped in Backfilling area.
4b	Location of topsoil, OB & mineral reject dumps	South West part of lease area	South West part of lease area	
4c	Number of dumps within lease area and outside lease area	2 (Within ML)	2 (Within ML)	One dump has been rehabilitated by plantation
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	On earmarked sites (Outside ultimate pit limit)	As per plan (Outside ultimate pit limit)	
4e	Number of active & alive dumps	Active dump 01	Active dump 01	Active dump is Top soil Dump
4f	Number of dead dumps	01	01	Dump has been rehabilitated by plantation
4g	Number of dumps stabilised	01	01	
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	-	1241 m.	
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management	The waste is used for backfilling of existing workout pit		

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	-	Before starting backfilling absence of mineral has been proved.	
5b	Area under backfilling of mined out area	1.0 H	1.1 H	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	yes	Yes	Nil
5d	Total area fully reclaimed & rehabilitated	Reclaim -1 H Rehabilitation – NIL	Reclaimed - 1.1 H Rehabilitated – NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The backfilling and reclamation work is broadly as per proposal.		

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.		Yes (29.06.2018)	
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 NIL. -	NIL 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	1.0 H NIL	1.1 H NIL	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	4000 2.0 H	4000 2.0H Afforestation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	The PMCP work is broadly as per the proposal.		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	All mineral mined

				above thresh hold value all being consumed
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	NA
7c	Different grade of mineral sorted out at mines	Nil	Nil	NA
7d	Any beneficiation process at mines	Nil	Nil	NA
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The mine is in exhaust stage and to survive the plant mostly the limestone deposit is consumed by using pet coke and by using pet coke low grade limestone also consumed.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Use for afforestation & stored	Use for afforestation & stored	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	All waste generate will dumped in Backfilling area	All waste generate are being dumped in Backfilling area	
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)	Backfilling – 1.0 H	Backfilling – 1.1 H	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	At the beginning there were only a few trees and land was barren land.	At present 35629 Tree have been planted	
8g	Survival rate	-	97.29%	

8h	Water sprinkling on roads to control airborne dust		106 Nos. sprinkler along haul road and two water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The reclamation and rehabilitation work is going on as per proposal and the environment protection measures also done as per proposal therefore no adverse impact observed on aesthetic beauty.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	F-8 Submitted on– 09.08.2018 H-8 Submitted on – 29.06.2018, AR and MR submission status upto date		
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	Mining Engineer- appointed Manager- Appointed Geologist- Appointed	Mining Engineer- Shri Shisir Tamrakar, Geologist - Narendra Kumar Payasi, Manager- Shri RPS Bhatia	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered Under O/c Working : 15.20 H Occupied by bldg & Strct, road. etc : 1.0 H Rehabilitated Dump :0.70 H Top Soil Dump :0.12 Plantation (Virgin Land) : 15.843 Others : 41.98 H		
9d	Scrutiny of Annual return on afforestation	Current Year Plantation Area 2.0 H No. 4000 Plants		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	147720 T. reject generated during 2017-18 (<34% CaO & >4% MgO)		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM 499184.90 T. NO Stock		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	244.60 per Ton		
9i	Scrutiny of Annual return	6000597		

	on fixed assets			
9k	Scrutiny of Annual return on mining machineries	Machineries detail given		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-During the present inspection the violation of Rule 45 of MCDR, 2017 pointed out. The earlier violation complied.

Rajesh Kumar Das, SrACOM,