

## MCDR INSPECTION REPORT 2016-17

## General

S. N.	Particulars	Details
1	Name of the Mine	MANIKGARH CEMENT LIMESTONE MINES
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Reserve Forest -238.96 Hect Private Land - 63.62 Hect. Total -302.58 Hect
3	Mine code	38MSH08012
4	IBM Registration Number under rule 45 of MCDR, 1988	4952/38MSH08012
5	Name of the lessee, Address, phone, email and fax number	M/s Manikgarh Cement
6	Village	Naokari
7	Taluka/Mandal	Rajura
8	District	Chandrapur
9	Pin code	442908
10	State	Maharashtra
11	Post office	Gadchandur
12	Nearest police station	Gadchandur
13	Nearest Railway station	Ballaharsha
14	Date of Grant of Mining Lease	17.08.1981
15	Date of Execution	The original grant of Mining lease -17.08.1981 further this lease has been renewed up to 16.08.2021. Now as per new Mines & Mineral (Development & Regulation) Amendment Act effective from 12 <sup>th</sup> Jan., 2015, the lease period extended up to 16.8.2031
16	Date of opening of Mine	05.3.1986
17	Date of first Renewal, if applicable and its period & expiry	12.05.2003
18	Date of second Renewal, if applicable and its period & expiry	16.08.2031
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri D.K. Agarwal Century Textile Industries Ltd. Industrial House 159-Churche Gate Reclamation Mumbai-400020 Ph:-022-24957000 Email-centurytextsec@centurytext.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri R K Udge Manikgarh cement Gadchandur Dist Chandrapur-442908 Maharashtra Email- <a href="mailto:rk.udge@centurycement.com">rk.udge@centurycement.com</a> Phone no – 07173-245092 Mobile No- 9422114562

22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri S K Tiwari Manikgarh cement Gadchandur Dist Chandrapur-442908 Maharashtra Email- <a href="mailto:sntosh.tiwari@centurycement.com">sntosh.tiwari@centurycement.com</a> Phone no – 07173-245092 Mobile No- 9421059453
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri R S Ambhorkar BE(Mining) 20 Years Experience Manikgarh Cement Gadchandur Dist Chandrapur-442908 Maharashtra Email- <a href="mailto:rajendra.ambhorkar@centurycement.com">rajendra.ambhorkar@centurycement.com</a> Phone no – 07173-245092 Mobile No- 9423401790
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Mr. Aduayat Saxena is appointed as a whole time Geologist.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mining Plan and Progressive Mine closure Plan for Extended Period. Proposal Period 2016-17 to 2020-21 Approval Letter:-CND/LST/MPLN-139/NGP-2016
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Modified Mining Plan and Progressive Mine closure Plan for Extended Period. Proposal Period 2016-17 to 2020-21 Approval Letter:-CND/LST/MPLN-139?NGP-2016
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, 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. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

#### 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.	1	1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	nil	nil	
1d	Balance area to be explored to bring	Area Fully Explored		

	Geological axis in 1 or 2		
1e	Balance reserves as on 01.04.2016	111-95.99 Million Ton 211-52.05 Million Ton	
1f	General remarks of inspecting officer on geology, exploration etc.	As per the the geology of the area ,the deposit has been fully explored by the lessee ..	

#### Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Central and eastern part	Nil	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	A Block-5,B Block-0,C Block-2, E block-3 & F block-5	A Block-5,B Block-0,C Block-2, E block-3 & F block-5	
2c	Stripping ratio or ore to OB ratio	Negligible	nil	169142M3 Qty of Ob and waste has to be removed against 5500000 MT
2d	Quantity of topsoil generation in m3	2857M3	nil	
2e	Quantity of overburden generation in m3	62000M3	36663M3	214286M3 waste will generated during the scheme period
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	- Development of the pit is as the per proposal		

#### Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	A, B , C ,E and F blocks	A, B , C ,E and F blocks	
3b	Quantity of ROM mineral production proposed	55,50,000MT	797471	(from jul2016 to sept 2016)
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	nil	nil	
3e	Grade of mineral reject generation and threshold value declared	nil	nil	
3f	Quantity of sub-grade mineral generation	Judicially blended		
3g	Grade of sub-grade mineral generation	Judicially blended		
3h	Manual / Mechanised method adopted for segregating from ROM	nil	nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Regular sampling method adopted		
3j	Provision of drilling & blasting in mineral benches	Wet drilling, Deep Hole Controlled blasting Method is adopted		

SN	Item	Proposals	Actual work	Remarks
3k	Provision of mining machineries in mineral benches			Fully Mechanized
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes		
3m	Total area covered under excavation/pits	148.77 Hect.	143.37 Hect.	Area broken for mining
3n	Ore to OB ratio for the pit/mine during the year	Negligible	Negligible	
3o	Total area put in use under different heads at the end of year	209.78 Hect	198.02 Hect	Net Area 176.36 Hect
3p	Production of ROM mineral during last five-year period, as applicable	2011-12:-20.05 Lac Ton 2012-13:-30.05 Lac Ton 2013-14:-55.00 Lac Ton 2014-15:- 55.00 LacTon 2015-16:- 55.00 LacTon	2011-12:-18.67 Lac Ton 2012-13:-18.24 Lac Ton 2013-14:-18.61Lac Ton 2014-15:-28.97 Lac Ton 2015-16:-39.56 Lac Ton	
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is as per the proposal and the production in the last five years is less than the proposed because of less demand in the market.		

#### Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	2857 M3 of BC soil is to be proposed for spreading over the newly made dump for plantation	Till date new proposed dump is not mature. That's why BC soil spreading work is not carried out.	By 31th march 2017(tentatively)
4b	Location of topsoil, OB & mineral reject dumps	Along nala and near A hill dump	nil	-
4c	Number of dumps within lease area and outside lease area	2 new dump is proposed in this year	1 is progressive while another one is to be made during rest month of this year	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Central and southern part	As per proposal	
4e	Number of active & alive dumps	2	1	
4f	Number of dead dumps	OB dumps:-5 Sub grade:-1 BC Soil :-1		

4g	Number of dumps stabilised	OB :- 5	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	
4i	Length of Retaining wall or garland drain all along dump	All along the dumps the retaining wall of basalt has been made while at the toe of C hill dump a masonry wall has been made.	
4j	Number of settling ponds	2 Nos -	
4k	Specific comments of inspecting officer on waste dump management	Dumps are stabilised properly and all along the dumps retaining wall has been made.	.

#### 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 32)	A separate dump of top soil (black Cotton Soil) dump is made (clearly shown in surface plan) approximate 19042 M3 of top soil stored. A systematic use of the top soil is proposed in the current Modified Mining Plan.		
5d	Total area fully reclaimed & rehabilitated	No area of Mines attain maturity limit		
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mining pits yet to attained the maturity limit, hence no backfilling/reclamation is carried out.		

#### 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.	PMCP submitted along with Modified Mining Plan for the period 2016-17 to 2020-21 and has been approved by Indian Bureau of Mines vide letter no. CND/LST/MPLN-139/NGP-2016		
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	0.51 ha .051 ha 1020 1020  By spreading of bc soil, preparation of burms	0.51 ha 0.51 ha As per proposal 1020  By spreading of bc soil, preparation of burms	
	vi) Cost incurred on watch & care during the year	3.0 lac	3.0 lac	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings	nil	nil	

SN	Item	Proposals	Actual work	Remarks
	iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	nil	nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	All the compliance are religiously followed by Manikgarh Cement Limestone Mines and has been filled within in prescribed time frame to different concern departments.		
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	No PMCP work has been done in the area as none of the mining pit has attain the maturity so far.		

#### Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	All the sub grade material judiciously blended and has been consumed hence zero generation of sub grade material is achieved.		
7b	Method of grade-wise mineral sorting i.e. manual or mechanical		nil	
7c	Different grade of mineral sorted out at mines		nil	
7d	Any beneficiation process at mines		nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Subgrade blended and is being consumed and no mineral beneficiation is undertaken.		

#### Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Re-use/Spreading of black cotton soil from Top soil dump:-2857M3	Till date proposed dump is not matured	
8b	Concurrent use or storage of topsoil			Re-use/Spreading of black cotton soil from Top soil dump
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes 2 dumps are proposed for OB	First dump is progressive	
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)	Dump rehabilitation is propose by plantation activity	In progress	

8f	Baseline information on existence of plantation & additional plantation	Till 2015-16, 132859 plants have been planted inside the lease area, while 27670 plants outside the lease area. In this current year 3000 sapling has been planted
8g	Survival rate	92%
8h	Water sprinkling on roads to control airborne dust	Dust suppression on mine haul road, at crusher and blasted material has been Always religiously followed. Two water tanker 9000 ltr and 15000ltr are use for the said activities. Apart from this Ambient Air monitoring also done on appropriate locations.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	To keep the aesthetic beauty intact of the area, suppression of dust on the mine is being done by sprinkling of water.

#### Compliance of Rule 45

SN	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Sept 2016 A.R. submitted up to 2015-16	

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 Engineers 11 Geologist 1 Surveyor 1	Found correct	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits 143.37 ha Area under dumps 41.40 ha	yes Found correct	
9d	Scrutiny of Annual return on afforestation	2682	Found correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	0	Found correct -	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	3956318 T	Found correct	Till sept 2016
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	203.17(cost of production)	Found correct	
9i	Scrutiny of Annual return on fixed assets	4.0728cr	Found correct	
9k	Scrutiny of Annual return on mining machineries	Shovel 3 Dumper 12 Dozers 2 Motor grader 1 Rock drill 3	Found correct	

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

A) Status of Violation of earlier inspection      nil

B) violation observed during the inspection      nil

KEWAL KRISHAN

Sr. Mining Geologist

(Name of inspecting officer with designation **and date**)