

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of the Mine, Name of Inspecting officer & Date of Inspection	Maldi Mopar Limestone Mines, Shri Rajesh Kumar Das, Senior Assistant Controller of Mines, 01.11.2017
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	553.656 Ha
3	Mine code	38CHG19003
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/447/2011
5	Name of the lessee, Address, phone, email and fax number	Ambuja Cements Ltd.
6	Village	Maldi, Mopar, Devrani, Karmandih & Boirdih
7	Taluka/Mandal	Bhatapara, Baloda Bazar
8	District	Baloda Bazar
9	Pincode	493331
10	State	Chhattisgarh
11	Post office	Rawan
12	Nearest police station	Baloda Bazar
13	Nearest Railway station	Bhatapara SECR
14	Date of Grant of Mining Lease	18/09/2007
15	Date of Execution	18/02/2009
16	Date of opening of Mine	06/12/2015
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
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	Mr. Ajay Kapur, MD & CEO Ambuja Cement Ltd, Elegant Business Park, MIDC Cross Roads, Andheri, Mumbai-400059 DOA -01.05.2010
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Rajoo Joshi PO- Rawan, Tehsil- Baloda Bazar, Dist-Baloda Bazar, Bhatapara 07727220010 DOA-16.06.2012
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Dinesh Singh Panwar A2-77, ACL Colony, PO- Rawan Dist- Baloda Bazar, Bhatapara PIN -493331 DOA-24/11/2014
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	No Mining Engineer appointed
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	No
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	28/04/2008
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval	13/10/2015

	letter, if any.	
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. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Completed	Completed	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	ACL	ACL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	All exploration work completed in July 2016	8 Holes 498 m	
1e	Balance reserves as on 01.04.2015	275 Million tonne	Approximately same	170000 MT produce but the material still not dispatch and it is stacked in mine.
1f	General remarks of inspecting officer on geology, exploration etc.	The geology of this area is simple sedimentary flat deposit and almost area has been covered and exploration done. The depth of core drilling done upto 100 meter and still the limestone continuing as shown exploration result. After reaching depth of 35 meter(approx) high magnesia zone encountered with band width of 20 meter.		

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Complied	Broadly within proposed area	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	As per proposal	
2c	Stripping ratio or ore to OB ratio	-		
2d	Quantity of topsoil generation in m ³	208000	115980	
2e	Quantity of overburden generation in m ³		153510	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is broadly as per proposal but as the mine is new and production done is very less the area of development is less compared to proposal.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	one	One	

3b	Quantity of ROM mineral production proposed	540000	124945	
3c	Recovery of salable/usable mineral from ROM production	NA	NA	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Cement Grade	Cement Grade	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
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	NA	NA	
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	Yes Mine is in development stage.	Avg. Bench height in ore is 7-8 meter	
3m	Total area covered under excavation/pits	Not mentioned specifically yearwise	5.643	
3n	Ore to OB ratio for the pit/mine during the year	OB generation Nil	1:1.22	
3o	Total area put in use under different heads at the end of year	Not mentioned specifically yearwise	5.046 ha. in O/C working, 0.33 ha. (reported in annual return) as reclaimed/rehabilitated but the same is not exist, 12.461 ha. for waste disposal, 6.99 ha. for infrastructure & 1.892 ha. for others.	
3p	Production of ROM mineral during last five-year period, as applicable	2014-15: Nil 2015-16: 260000 MT 2016-17: 540000 MT	The mine was opened on 06.12.2014 and development activities underway (as reported) 2014-15: Nil 2015-16: Nil 2016-17: 120000 MT	In mining plan proposal for first five year is given 9.5 million tons And achievement is Nil. The production started from 2016-17. There was deviation from approved proposal due local administrative issues as reported and delay in commissioning of crusher and belt conveyor system.

				Till the date of inspection also commissioning of crusher and belt conveyor system not completed and therefore the material is stacked in mine only.
3q	General remarks of inspecting officer on method of mining etc.	Exploitation of limestone is by conventional method of drilling and blasting technique. Drilling is carried out by deploying 115 mm dia. Drill.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Implemented	Implemented	
4b	Location of topsoil, OB & mineral reject dumps	Proposal given to utilized the top soil in plantation & bunding on lease ultimate periphery.	Broadly as per proposal.	
4c	Number of dumps within lease area and outside lease area	nil	1	The waste material is dump for construction of crusher ramp and Limestone also stacked separately in mine.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	N-NE	
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	0	0	
4g	Number of dumps stabilised	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	The proposal for waste generation is given Nil but still waste generation is reported and the same is dump for crusher hopper ramp construction.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	As the mining is recently started still no area is matured for backfilling	
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)	NA	Used for afforestation	

5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	-		As the mining is recently started still no area is matured for backfilling

Progressive Mine Closure Plan

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.	Implemented	Not submitted	
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	NA 1 Ha 2500nos	As the mining is recently started still no area is matured for backfilling or reclamation. 0.33Ha 825 nos afforestation done in 2016-17	Outside the Mining Lease around 3367 saplings have been planted with in the area of around 3.29 Ha
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 backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i) NA	i) NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) NA	i) NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NA	NA	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	NA	NA	Broadly as per proposal.

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No such specific proposal given	Only the top bench material is mixed	No such gradewise sorting done.

			with clay separated with machine itself in face.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	No	No	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no beneficiation and limestone produce is stacked in mine as the installation of crusher and conveyor belt is still not completed.		

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Yes	Yes	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Mostly the waste is used to construct the ramp for crusher hopper.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal given	Mostly the waste is used to construct the ramp for crusher hopper.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)		4192 nos	
8g	Survival rate	Not mentioned	60% reported	
8h	Water sprinkling on roads to control airborne dust	Yes	As per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	As the mining activity is very less and maximum depth reached 8-10 meter which is above ground water table therefore no adverse impact observed.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Annual return upto 2016-17 and monthly return 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	No	No information furnished for mining Engineer and geologist . Mine manager Shri Dinesh Singh Panwar mentioned	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	5.046 ha. in O/C working, 0.33 ha. (reported in annual return) as reclaimed/rehabilitated		

		but the same is not exist,12.461 ha. for waste disposal,6.99 ha. for infrastructure & 1.892 ha. for others		
9d	Scrutiny of Annual return on afforestation	825 trees planted within ML and 3367 nos trees planted out side lease and survival rate is 60%.	Broadly same	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	There is no crushing and screen and the ROM is staked in mine.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	124945 MT		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price -272.59 Rs/ton, production cost -272.59 Rs/ton		
9i	Scrutiny of Annual return on fixed assets	Value of fixed Assets Rs 21568060283		
9k	Scrutiny of Annual return on mining machineries	Shovel-6.5 cu.m capacity,Dumper 55 tons,Dozer-330 HP & drill 115 mm.		

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

Rule	Nature of Violation observed
11(1)	Mining operations should have been undertaken in accordance with the approved Mining Plan/Scheme of Mining. The Mining Plan was approved vide letter no.KNK/FE/MPLN-1151/NGP dated 03.07.2015 and following deviation was observed during inspection 1. It was proposed to produce 0.26 million tons in 2015-16 and 0.54 million tons in 2016-17 but achievement is Nil production in 2015-16 & 0.124 million tons. 2. In last approved document the OB/SB/IB proposal given Nil but during mine visit it was observed that OB mixed with limestone is dump in mine area as crusher ramp and also in annual return it was mentioned that 12.461 ha. area is used for waste disposal.
Rule 26	A yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitate works carried out has not been submitted for the year 2016-17
Rule 33	Updated print copy of the surface geological plan and sections has not been submitted before 30th day of June for the year 2016-17.
Rule 45	While scrutiny of the Annual return submitted for 2016-17 it is observed that the mining Engineer charge information is not mentioned where as other place it is mentioned that two mining engineer is there. The OB/Waste generation is kept nil whereas in mine site waste mixed with limestone is dumped for crusher ramp. In part IV it is mentioned 108850MT OB generation shown whereas in Part V it is shown Nil. In annual return the area is given 0.33ha. reclaimed/ rehabilitated but the same is not exist in ML area.
Rule 55	Employment of geologists and mining engineers.-(1) For the purpose of carrying out reconnaissance, prospecting or mining operations in accordance with these rules,- 3. every holder of a mining lease shall employ, in case of-

	(iii) category 'A' mines, a whole-time mining engineer and a geologist; But the mine is not having mining engineer nor Geologist.
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Details of MCDR inspection

Name of Inspecting Officer	Designation	Date of inspection	Violation
R.R. DONGRE	Sr. ACOM	27.03.2014	NIL
R. Majumdar	Sr. Geologist	27.03.2014	
R. R. DONGRE	DCOM	14.03.2015	NIL

(Name of inspecting officer with designation and date)

Rajesh Kumar Das, Senior Assistant Controller of Mines,D.O.I 01.11.2017