

MCDR INSPECTION REPORT

**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	Shri Suresh Prasad , Deputy Controller of Mines
2	Date of inspection	16.01.2017
3	Name of the Mine	Rawan Limestone Mines
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	Pvt. Land- 324.04, Waste Land – 96.91 Total – 420.953 Hactare
5	Minecode	38MPR28007
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/447/2011
7	Name of the lessee, Address, phone, email and fax number	Ambuja Cements limited
8	Village	Rawan
8	Taluka/Mandal /District	BalodaBazar – Bhatapara
10	State	Chhatissgarh
11	Post office & PIN	Rawan, 493331
12	Nearest police station	Baloda Bazar
13	Nearest Railway station	Bhatapara
14	Date of Grant of Mining Lease	27.06.1981 for 20 years
15	Date of Execution	
16	Date of opening of Mine	1 April 1984.
17	Date of first Renewal, if applicable and its period & expiry	27.06.2001 to 25.06.2021
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	-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Ajay Kapur, MD & CEO,Ambuja Cement Ltd. Elegant Business Park MIDC Cross road B Andheri (E) Mumbai - 400059 DOA- 1.05.2010
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Rajoo Joshi PO – Rawan , Tehsil, BalodaBazar, District – Balodabazar-Bhatapara 07727220010 DOA – 16.06.2012
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Kashi Kant Singh PO – Rawan , Tehsil, BalodaBazar, District – Balodabazar-Bhatapara 07727220010 , DOA- 3.02.2014

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri S K Sahu PO – Rawan , Tehsil, BalodaBazar, District – Balodabazar-Bhatapara 07727220010 DOA- 19.03.2012
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, DOA Geologist 16.12.2013
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	-
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	राय/चूप/खयो-135/नाग/2015/13-रायपुर/263 Dated 4.08.2016
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 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	31 Hole Proposed on SOM 2011-12 to 2015-16	37 Borehole Completed in 2014.	
1b	Exploration over lease area for Geological axis 1 or 2.	Area covered under G1	Area covered under G1	420.953 Hactare
1c	Exploration Agency & Expenditure in lakh Rupees during the year	-	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	-	
1e	Balance reserves as on 01.04.20...	Reserve as on 31.03.2016 Proved Mineral Reserve (111) is 85.60 Million ton and Total Geological Resources is 684.53 Million ton	-	

1f	General remarks of inspecting officer on geology, exploration etc.	Area covered under G1.		

### **2.0 Development**

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	-	-	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	--	---	Small layer of top soil.
2c	Stripping ratio or ore to OB ratio	0.11	0.10	
2d	Quantity of topsoil generation in m3	43649	45916	Used for plantation
2e	Quantity of overburden generation in m3	604166	481396	Top soil & SR.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Sufficient area has been developed.		

### **3.0 Exploitation**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	6310000	5515027	
3c	Recovery of salable /usable mineral from ROM production	-	-	
3d	Quantity of mineral reject generation	285000	108076 (Screen reject)	
3e	Grade of mineral reject generation and threshold value declared	-	After screening 20-21% of CaO	Below THL.
3f	Quantity of sub-grade mineral generation	-	-	
3g	Grade of sub-grade mineral generation	-	-	
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	-	-	Analysis carried out by IBM Lab.
3j	Provision of drilling & blasting in mineral benches	Total No. Of benches 4	Total No. Of benches 4	

3k	Provision of mining machineries in mineral benches	Total No. Of benches 4	Total No. Of benches 4	
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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	167.58 hectare	150.965 hectare	
3n	Ore to OB ratio for the pit/mine during the year	0.11	0.10	
3o	Total area put in use under different heads at the end of year			
3p	Production of ROM mineral during last five-year period, as applicable	2011-12- 6310000 ton 2012-13- 6310000 ton 2013-14- 6310000 ton 2014-15- 6310000 ton 2015-16- 6310000 ton	4817922 ton 5262121 ton 4803309 ton 5000819 ton 5515027 ton	
3q	General remarks of inspecting officer on method of mining etc.	Nil		

#### **4.0 Solid Waste Management-Dumping**

SN	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	Screen reject.- 613059, 2396431 to 613062, 2396431  North block – 1 613564, 2397572 to 613821, 2397580	Top soil- 612551,2396367 to 612770,2396208 Screen reject.- 612731,2396637 to 612948, 2396454 Contaminated- 612965,2396735 to 613312,2396387 Coco fibre dump- 613239,2397417 to 613507,2397108 North block-1 613564,2397572 to 613821,2397580 North 2 614149,2397725 to 613679,2397537	
4c	Number of dumps within lease area and outside		nil	All dumps

	lease area			situated in lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	-	-	
4e	Number of active & alive dumps	All dump is active Only one is stabilised	Active & stabilized dump.	
4f	Number of dead dumps	-	-	
4g	Number of dumps stabilised	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there	Garland Drain	Yes	
4i	Length of Retaining wall or garland drain all along dump		As on 2015-16 2907 mtr garland drain is developed. And 950 Retaining wall is completed.	
4j	Number of settling ponds	-	-	
4k	Specific comments of inspecting officer			

### **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	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)	Nil	Nil	-
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	Nil		

### **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	Implemented	-Yes	

	given in the format as given in Annexure-20.			
6b	<p>Management of worked/mined out benches</p> <p>i) Area available for rehabilitation (ha)</p> <p>ii) Afforestation done (ha)</p> <p>iii) No. of saplings planted during the year</p> <p>iv) Cumulative no. of plants</p> <p>v) Any other specific method of rehabilitation</p> <p>vi) Cost incurred on watch &amp; care during the year</p>	<p>NA</p> <p>Screen reject dump 2000 sapling proposed</p> <p>-</p>	<p>0.22 hectare infilling 3523 sapling Actual 22420 nos of sapling In 15.09 hectare area (Cumulative)</p>	
6c	<p>Compliance on reclamation and rehabilitation by backfilling</p> <p>i) Voids available for backfilling (L X B X D)</p> <p>ii) Void filled by waste/tailings</p> <p>iii) Afforestation on the backfilled area</p> <p>iv) Rehabilitation by making water reservoir</p> <p>v) Any other specific means</p>	-	-	-

6d	<p>Compliance of Rehabilitation of waste land within lease</p> <p>i) Afforestation</p> <p>ii) Area rehabilitated (ha)</p> <p>iii) Method of rehabilitation</p>	<p>-Green belt developed along the lease boundary. Plantation on stabilized dump.</p>	<p>-Green belt developed along the lease boundary. Plantation on stabilized dump.</p>	-
6e	<p>Compliance of Environmental monitoring (core zone &amp; buffer zone)</p>	Yes	Yes	
6f	<p>General remarks of inspecting officer on PMCP compliance &amp; progressive</p>	<p>Fencing &amp; Green belt developed along the lease boundary and along the state highway road, Plantation on stabilized dump. Coir matting on stabilized dump.</p>		

## 7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		-	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	-	-	
7c	Different grade of mineral sorted out at mines	-	-	
7d	Any beneficiation process at mines	-	-	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	nil		

## 8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	43649 (M3) Generation & 37101 (M3) Utilization	45916 (M3) Generation & 39029 Utilization	
8b	Concurrent use or storage of topsoil	Plantation and green belt development all along the lease area	Plantation and green belt development all along the lease area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Implemented	Implemented	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	-	-	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-	-	

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	-	-	
8g	Survival rate	-		
8h	Water sprinkling on roads to control airborne dust	Implemented	Implemented	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Coir matting technique also been developed in the view point area for stabilization.		

## 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – As on January 2017 A.R. submitted upto- as on 2015-16	

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	Appointed	appointed	Geologist as appointed having experience less than 10 yrs.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	In order	
9d	Scrutiny of Annual return on afforestation	2000 nos Furnished	In order	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Furnished		Screening reject has proposed to use/sale as minor



				minerals under the Rule( Application submitted)
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Furnished	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	<b>Part – IV Consumption of Explosives</b> 2. Total production during the year (in Tonne)- wrongly marked as 555027 Tonnes. <b>Part - VII COST OF PRODUCTION (i)</b> Direct cost is wrongly marked as zero. Suggested for necessary correction		
9i	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries			

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

Violation under 13(1) of MCDR, 1988 for deviation in mine working is pointed out. .