

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine - Inspection date- Name of officer – Accompanying Mine Officials-	Rawan Limestone Mines M/s Ambuja Cements Ltd. 14.11.2018 Shri R.K Das Sr.ACOM Raipur Region Shri Bhavin Suthar ,Mine Manager & Shri Digendra Singh Solanki, Geologist
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Pvt. Land- 32 4.04, Waste Land – 96.91 Total – 420.953 Hactare
3	Mine code	38MPR28007
3.1	EC limit	6.31Million Tons
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 07727220010 Navaneet.nuwal@ambujacement.com
6	Village	Rawan
7	Taluka/Mandal	BalodaBazar
8	District	BalodaBazar-Bhatapara
9	Pincode	493331
10	State	Chhattisgarh
11	Post office	Rawan
12	Nearest police station	BalodaBazar
13	Nearest Railway station	Bhatapara
14	Date of Grant of Mining Lease	27.06.1981 for 20 years
15	Date of Execution	27.06.1981
16	Date of opening of Mine	1.04.1984
17	Date of first Renewal, if applicable and its period & expiry	27.06.2001 to 25.06.2031
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	<b>Shri Ajay Kapur, MD &amp; CEO</b> , Ambuja Cement Ltd. Elegant Business Park MIDC Cross road B Andheri (E) Mumbai - 400059 DOA- 1.08.2013
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<b>Shri N K Nuwal</b> PO – Rawan , Tehsil, BalodaBazar, District – Balodabazar-Bhatapara 07727220010 DOA – 20.12.2017
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	<b>Shri Bhavin Suthar</b> PO – Rawan , Tehsil, BalodaBazar, District – Balodabazar-Bhatapara 07727220010 , DOA- 29.06.2018

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	<b>Shri S K Sahu</b> 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.	<b>Geologist- Shri Digendra Singh Solanki</b> 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.	राय/चूप/खयो-135/नाग/2015/13-रायपुर/263 Dated 4.08.2016
26	<b>Date of Approval of Scheme of Mining/Modified Scheme of Mining</b> with five-year period and specific condition in approval letter, if any.	NA
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	Capative

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	All exploration work is completed
1b	Exploration over lease area for Geological axis 1 or 2.	Completed	Completed	All exploration work is completed
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NIL	NIL	All exploration work is completed
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	All exploration work is completed
1e	Balance reserves as on 01.04.2018 (million ton)	<b>Total Mineral Reserve is- 75.08</b> <b>Total Remaining Resources is- 598.93</b>	-	-
1f	General remarks of inspecting officer on geology, exploration etc.	The lease has simple topography, horizontal lying beds of limestone are mostly overlain by overburden soil, clay, murrum, having thickness of 2-3m range. The lease area is broadly explored in G1 category and total 247 boreholes		

		drilled.
--	--	----------

## **2.0 Development**

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	As per Approved SOM the Mining is , South block North Block pit	As per Approved SOM the Mining is South block North Block pit	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Complied	Complied	
2c	Stripping ratio or ore to OB ratio	1:0.30	1:0.26	
2d	Quantity of topsoil generation in Tonnes	270000	74942 Ton	
2e	Quantity of overburden generation in Tonnes	570000	1212015 Ton	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is broadly as per proposal.		

## **3.0 Exploitation**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	6300000 Ton	5279965 Ton	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	1070000 Ton	98714 Ton	
3e	Grade of mineral reject generation and threshold value declared	Not mentioned specifically	Lees tha threshold limit	
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	NIL	NIL	
3j	Provision of drilling & blasting in mineral benches	As per Approved SOM, controlled method of drilling and blasting technique.	As per Approved SOM, controlled method of drilling and blasting technique	
3k	Provision of mining machineries in mineral	As per Approved SOM use the mining	As per Approved SOM use the mining	

	benches	machinery in mines	machinery in mines	
--	---------	--------------------	--------------------	--

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Complied	Complied	
3m	Total area covered under excavation/pits	168.44 Hectare	157.16 Hectare	
3n	Ore to OB ratio for the pit/mine during the year	1:0.30	1:0.26	
3o	Total area put in use under different heads at the end of year	Pit-19.38 hectare Waste/reject- Nil Others- Nil	Pit- 8.82 Other- Nil	
3p	Production of ROM mineral during last five-year period, as applicable	2013-14- 6310000 ton 2014-15- 6310000 ton 2015-16- 6310000 ton 2016-17- 6300000 ton 2017-18- 6300000 ton	4803309 ton 5000819 ton 5515027 ton 5244204 ton 5279965 ton	
3q	General remarks of inspecting officer on method of mining etc.			

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

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	As per Approved SOM	As per Approved SOM	
4b	Location of topsoil, OB & mineral reject dumps	<b>Top Soil</b> 612529.551 to 612788.12 2396207.26 to 2396369.14  <b>OB North Block</b> 613628 to 613762 2397373 to 2397473  <b>OB South Block</b> 612941 to 613007 2396592 to 2396697 612757 to 612961 2396262 to 2396595  <b>Reject Dump</b>	<b>Top soil</b> 612628 to 612699 2396287 to 2396357  <b>OB North Block</b> 613709 to 613834 2397526 to 2397579  <b>OB South Block</b>  612913 to 613098 2396361 to 2396469  <b>Reject Dump</b> 612879 to 612942 2396541 to 2396627 612794 to 612925 23965599 to 2396656	
4c	Number of dumps within lease area and outside lease area	All dump situated in lease area.	All dump situated in lease area.	
4d	Location of dumps	All dump within UPL	All dump within UPL	

	w.r.t. ultimate pit limit (Rule 16)			
4e	Number of active & alive dumps	0	02	
4f	Number of dead dumps	0	01	
4g	Number of dumps Stabilished	0	01	
4h	Whether Retaining wall or garland drain all along dumps are there	-	Garland drain all along the dump	
4i	Length of Retaining wall or garland drain all along dump	-	NIL	
4j	Number of settling ponds	-	NIL	
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	The area is still not matured for backfilling.		

### **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.	Complied	Complied	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) A forestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants	a. NIL b.2.00 hectare (infilling) c. 2000	a. NIL b. 2.0 Hactare c.1773 saplings d. 87287 as on	

	v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year		March 2018 e. Nil f.4.50 lacs	
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	NA	NA	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Implemented	Implemented	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Broadly as per proposal		

### **7.0 Mineral Conservation**

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	NA	NA	
7d	Any beneficiation process at mines	Screen reject Plant	Screen reject plant	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Low grade is blend with high grade to get the required grade and no beneficiation done except screening and crushing.		

## 8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	As per Approved SOM	As per Approved SOM	
8b	Concurrent use or storage of topsoil	Plantation	Plantation	
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	NIL	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)		2017-18 outside the ML area 5.99 hectare area and 10112 Plantation is done	
8g	Survival rate	-	90%	
8h	Water sprinkling on roads to control airborne dust	Implemented	Implemented	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No adverse impact observed during mine visit.		

## 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto - October 2018 A.R. submitted upto- 2017-18	

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	Information given	Mining Engineer-Shri Shiv Kumar Sahu, Geologist-Shri Digenker Singh Solanki, Manager-Shri Kashi Kant Sing	During mine visit mine manager change and Shri Bhavin Shutar is manager
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information given	O/C working-165.515 ha., waste dump-31.053 ha., Infrastructure-0.61 ha., Afforestation-17.5 ha.	
9d	Scrutiny of Annual return on afforestation	1773 nos within ML area		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Information given	Quantity-98714 MT, Grade is not given and mentioned 0	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	670738 MT		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex.mine price & Cost of Production-228.98 Rs		
9i	Scrutiny of Annual return on fixed assets	Rs22064990591		
9k	Scrutiny of Annual return on mining machineries	Shovel(Hydraulic) of 1,4.2 & 6.5 cum capacity, Dumper of 55 MT(10 nos) & 100MT(3 nos), Wheel Loader of 5 cum, Water Tanker of 9KL & 28K1		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - There is no violation pending for compliance from last inspection. During present inspection Rule 11(1) for deviation against proposal in modified mining plan & 45 for incomplete information of grade of mineral reject in annual return found violated.