

MCDR INSPECTION REPORT**1.0 GENERAL**

S.No.	Particulars	Details
1	Name of inspecting office & designation	Mr. Rajesh Kumar Das, Senior Regional Controller of Mines, Indian Bureau of Mines, Raipur
2	Accompanying Mine Official with Designation	Shri Nitesh Raghuvanshi, Qualified Person & Shri Bhavin Kumar Suthar, Mines Manager, Mine is inspected for processing of Review of Mining Plan.
3	Date of inspection	25/11/2020 to 26/11/2020
4	Name of the Mine	Rawan Limestone Mines M/s Ambuja Cements Ltd.
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Pvt. Land- 324.04, Waste Land – 96.91 Total – 420.953 Hectare
6	Mine Code	38MPR28007
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/447/2011
8	Name of the lessee, Address, phone, email and fax number	Ambuja Cements Ltd. 07727220010 nitesh.raghuvanshi@ambujacement.com
9	Village	Rawan
10	Taluka / Mandal / District	Baloda Bazar
11	State	Chhattisgarh
12	Post office & PIN	Rawan & 493331
13	Nearest police station	Baloda Bazar
14	Nearest Railway station	Bhatapara
15	Date of Grant of Mining Lease	27.06.1981
16	Date of Execution	27.06.1981
17	Date of opening of Mine	1.04.1984
18	Date of first Renewal, if applicable and its period & expiry	27.06.2001 to 25.06.2031
19	Date of second Renewal, if applicable and its period & expiry	NA
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Neeraj Akhoury, MD & CEO , Ambuja Cement Ltd. Elegant Business Park MIDC Cross road B Andheri (E) Mumbai - 400059 DOA- 21.02.2020
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Pankaj Lochan PO – Rawan , Tehsil, BalodaBazar, District – Balodabazar-Bhatapara 07727220010 DOA – 01.01.2020

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23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Bhavin Suthar PO – Rawan , Tehsil, BalodaBazar, District – Balodabazar-Bhatapara 07727220010 , DOA- 29.06.2018
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Himanshu Shekhar PO – Rawan , Tehsil, BalodaBazar, District – Balodabazar-Bhatapara 07727220010 DOA- 04.09.2020
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Geologist- Ms. Khushboo Yes, DOA Geologist - 01.11.2019
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	-
27	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 04.08.2016 for the period 2016-2021
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	6.31 million tons & 08.06.2007
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Submitted on 18.05.2017

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 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.	Completed	Completed	
1c	Exploration Agency & Expenditure in lakh Rupees			

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	during the year	NIL	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	Total Mineral Reserve is- 64.39 MT Total Remaining Resources is- 598.93 MT	-	-
1f	General remarks of inspecting officer on geology, exploration etc.	Broadly the area already explored in G1 & G2 scale of exploration but depthwise many holes are of upto 30 meter. To delineate the ore body depth wise proposal is given in the given document infilling holes.		

2.0 Development

S. No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	EXCAVATION North Block 614989 to 615139 2396888 to 2397549 EXCAVATION South Block 614704 to 614803 2396411 to 2396751 EXCAVATION South Block 613938 to 614505 2396017 to 2396119	EXCAVATION North Block 614081 to 614565 2397635 to 2397921 EXCAVATION South Block 613404 to 613806 2396167 to 2396251 EXCAVATION South Block 614131 to 614544 2396119 to 2396363	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Complied	Complied	
2c	Stripping ratio or ore to OB ratio	1:0.21	1:0.18	
2d	Quantity of topsoil generation in Ton	130000 Ton	128750 Ton	
2e	Quantity of overburden generation in Ton	430000 Ton	978587 Ton	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	It was observed that there is deviation in excavation proposal and work done as shown above.		

3.0 Exploitation

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SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	5500000 Ton	5303551 Ton	
3c	Recovery of saleable/usable mineral from ROM production	NA	NA	
3d	Quantity of mineral reject generation	600000 Ton	148654 Ton	
3e	Grade of mineral reject generation and threshold value declared	-	-	
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 MMP, controlled method of drilling and blasting technique.	As per Approved MMP, controlled method of drilling and blasting technique	
3k	Provision of mining machineries in mineral benches	As per Approved MMP use the mining machinery in mines	As per Approved MMP use the mining 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	211.78 Hectare	174.335 Hectare	
3n	Ore to OB ratio for the pit/mine during the year	1:0.21	1:0.18	
3o	Total area put in use under different heads at the end of year	62.215 hectare	61.44 hectare	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	2015-16- 6310000 ton 2016-17- 6300000 ton 2017-18- 6300000 ton 2018-19-6000000 ton 2019-20-5500000 ton	5515027 ton 5244204 ton 5279965 ton 5382863 ton 5303551 ton	

3q	General remarks of inspecting officer on method of mining etc.	The method of mining is by opencast method using HEMM and broadly as per proposal.
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4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Yes	As per Approved SOM	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Top Soil 612530 to 612788 2396207 to 2396369 OB North Block A) 613756 to 613806 2397382 to 2397483 OB South Block A) 612701 to 612945 2396579 to 2396846 Reject Dump A) 612597 to 612961 2396260 to 2396639	Top soil 612628 to 612699 2396287 to 2396357 OB North Block A) 613549 to 614155 2397271 to 2397720 OB South Block A) 612913 to 613343 2396359 to 2396781 Reject Dump 612724 to 612971 2396452 to 2396648	
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 w.r.t. ultimate pit limit (Rule 14)	All dump within UPL	All dump within UPL	
4e	Number of active & alive dumps	03	03	
4f	Number of dead dumps	01	01	
4g	Number of dumps stabilised	0	0	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Garland drain all along the dump (approx 300 m)	
4i	Length of Retaining wall or garland drain all along dump	Nil	NIL	
4j	Number of settling ponds	Nil	NIL	
4k	Specific comments of inspecting officer on waste dump management	Broadly as proposal		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
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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 36)	NIL	NIL	
5d	Total area fully reclaimed & rehabilitated	NIL	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No backfilling is done but temporary dumping is done in excavated pit.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. 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) 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	a. NIL b. 1.50 hectare c. 1500 d. 6500 e. Nil f. 2.55 lakhs	a. NIL b. 1.50 hectare (infilling) c. 1500 d. 8263 e. Nil f. 5.5 lakhs	
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	NA	NA	
7c	Different grade of mineral sorted out at mines	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
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 and only screening and crushing done for sizing and sorting.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	As per Approved MMP	As per Approved MMP	
8b	Concurrent use or storage of topsoil	Plantation	Plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Implemented	Implemented	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its	NIL	NIL	

	original use			
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 44)	Nil	Nil	
8g	Survival rate	-	85%	
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	The lessee is taking care of all environmental preventive measures as per statute i.e Air, Water, Noise, ground vibration monitoring. The plantation is done and dust suppression water sprinkling is done on regular basis. There is no adverse impact observed during mine visit on aesthetic beauty in and around mines area.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted up to - October 2020 A.R. submitted up to - 2019-220	

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	Yes given	Mining Engineer-Shiv Kumar Sahu,Geologist-Khushboo,Mine Manager- Bhavin Shutar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under O/C working-174.335 ha., Waste Disposal-29.01ha.,Reclamation/ Rehabilitated-18.603 ha.		
9d	Scrutiny of Annual return on Afforestation	1500 nos within lease		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	148654 tons below threshold value		
9f	Scrutiny of Annual return on ROM stock and/or	Nil		

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	graded ore			
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price & production cost-223.09 Rs		
9i	Scrutiny of Annual return on fixed assets	Rs 2672959031/-		
9k	Scrutiny of Annual return on mining machineries	Yes given		

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

Date of Last Inspection, Name and Designation of the Inspecting Officer: 28th January, 2020, Mr. S. Kartikeya, Jr. Mining Geologist. And violations pointed out taken compliance.

Details of the Violations Pointed-out during Inspections:

Rule	Nature of Violation observed	
11(1)	Mining operations should have been undertaken in accordance with the approved Mining Plan. The Modified Mining Plan was approved vide letter no. राय/चूना/खयो-135/नाग/2015/13-रायपुर dated 04.08.2016 and following deviation was observed during inspection	
	1. It was proposed that mineral reject generation in 2019-20 is 0.60 million tons but actually 0.148 million tons mineral reject generation reported which is less than 24% of proposal.	
	2. It was proposed that OB generation in 2019-20 is 0.43 million tons but actually 0.978 million tons OB generation reported which is more than double of the proposal	
	3. It was observed that there is working deviation w.r.t the proposal given in both the pit:	
	Proposal	Actual
	North Block 614989 to 615139 2396888 to 2397549	North Block 614081 to 614565 2397635 to 2397921
	South Block 614704 to 614803 2396411 to 2396751	South Block 613404 to 613806 2396167 to 2396251

(RAJESH KUMAR DAS, SENIOR ASSISTANT CONTROLLER OF MINES)