

MCDR INSPECTION REPORT (2019-20)

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office & designation	Shri R.K Das, Sr ACOM, Raipur Region Indian Bureau of Mines, Raipur
2	Date of inspection & Accompanying person	27.11.2020 & Mr. Shiv Kumar Sahu, Manager mine, Shri Nitesh Raghuwansi, Head Mines
3	Name of the Mine	Maldi Mopar Limestone Mine
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	553.656 Ha Govt. Waste Land- 53.682 Hec. Agriculture Land - 499.974 Hec.
5	Mine Code	38CHG19003
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 Ltd.
8	Village	Maldi, Mopar, Devrani, Karmandih & Boirdih
8	Taluka / Mandal / District	Bhatapara , Baloda Bazar- Bhatapara
10	State	Chhattisgarh
11	Post office & PIN	493331
12	Nearest police station	Balodabazar
13	Nearest Railway station	Bhatapara
14	Date of Grant of Mining Lease	29/10/2007
15	Date of Execution	18/02/2009
16	Date of opening of Mine	06/12/2014
17	Date of first Renewal, if applicable and its period & expiry	18/02/2009 to 17/02/2059
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	Shri Neeraj Akhoury MD & CEO Ambuja Cement Ltd, Elegant Business Park, MIDC Cross Roads, Andheri, Mumbai-400059 DOA -21.02.2020
21	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, PIN- 493331 07727220010, DOA – 01.01.2020
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Shiv Kumar Sahu M.G.Road Baloda Bazar, Phone: 08982073586 PIN -493332 DOA-04/09/2020

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Vipin Sharma BE Mining (8 Yrs) DOA- 04/09/2020, PIN: 493331 Phone: 08982073667 Ambuja Cement Ltd Rawan Colony.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes
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 letter, if any.	Modification in approved Mining Plan dated 4/12/2017 for period 2018-19 to 2022-23
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
31	Existing EC Limit and validity	2.00 million ton
32	Status of Financial Assurance	Submitted

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			
1b	Exploration over lease area for Geological axis 1 or 2.	NA	NA	All exploration Work Completed in 2016. Under G1.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	NA
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	All exploration Work Completed in 2016. Under G1.
1e	Balance reserves as on 01.04.2018 (in Million Tonnes)	Total Mineral Reserve- 238.56 Total Remaining Resource- 574.48		

1f	General remarks of inspecting officer on geology, exploration etc.	The mining lease is covered by soil & overburden and some places limestone is exposed. The main litho units encountered in the boreholes drilled in the area are soil, Limestone, Shaly limestone, Magnesian limestone and shale. The formations have general strike in NE-SW direction with very low dip. The area is broadly explored in G1.
----	--	--

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	E609500-E609670 & N 2394750-N 2394866 E609800-E609900 & N 2394450- N 2394650	Broadly within proposed area	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Implemented	Implemented	
2c	Stripping ratio or ore to OB ratio	1:0.08	1:0.76	
2d	Quantity of topsoil generation in Tonne	70000 Tonne	59330 Tonne	
2e	Quantity of overburden generation in Tonne	NIL	173330 Tonne	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is more w.r.t. proposal given. The mine is yet to start dispatch because the crusher and conveyor work still not completed.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	1000000	132490 Tonne	
3c	Recovery of salable/usable mineral from ROM production	NA	Dispatch yet to be started	
3d	Quantity of mineral reject generation	0.01 Million tons	NIL	
3e	Grade of mineral reject generation and threshold value declared	NA	NA-	
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	Mines is in development stage	YES	
3m	Total area covered under excavation/pits	Not mentioned specifically yearwise	14.312 Hectare	
3n	Ore to OB ratio for the pit/mine during the year	1:0.08	1:0.76	
3o	Total area put in use under different heads at the end of year	Not mentioned specifically yearwise	Pit- 14.31 Ha Other heads:27.54Ha	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	2015-16- 260000 ton 2016-17- 540000 ton 2017-18- 2000000 ton 2018-19- 500000 ton 2019-20 – 1000000 ton	- 124945 Ton 115665 on 61545 Ton 132490 ton	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is broadly as per proposal only the dispatch not started due to crusher and conveyor still not installed.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Top Soil E609657 to 609831 N2394867 to 2395008 OB Dump E609780 to 610095 N2394773 to 2395050	OB dumping are done broadly within proposed area and top soil in 7.5 meter safety barrier zone.	
4c	Number of dumps within lease area and outside lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	E 609780-E 610095 N 2394773- N 2395050	Broadly within proposed area	
4e	Number of active & alive dumps	01	01	
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilised	NIL	NIL	

4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management	The top soil is dump in 7.5 meter safety barrier zone. The mine is new therefore dump size is small and active dump and OB generation is nil reported.		

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	NA	NA	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Plantation Purpose	Plantation Purpose	
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mine is very new as per operation and still area is 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 23. Details should be given in the format as given in Annexure-20.	Implemented	Implemented	
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	Nil 0.5 hectare 1000	Nil 1.61 hectare 3174 Within ML- 7368 Out Side ML- 4623	
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	NA	NA	

	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	NA	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NA	NA	
6f	General remarks of inspecting officer on PMCP compliance & progressive	The mine is new and PMCP broadly complied.		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Mineral used for captive use.	Dispatch not started.	Mines is on development stage
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	As mentioned mine is new and no dispatch till date therefore no scope of mineral conservation.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Yes	Yes	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	YES	YES	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	

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)	YES	YES	
8g	Survival rate	-	Within ML- 89% Outside ML- NA	
8h	Water sprinkling on roads to control airborne dust	Yes	DONE	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The mine still not started dispatch and production is also very less and preventive measures for protection of environment is as per proposal therefore no such adverse impact due to mining activity.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto - Oct 2020 A.R. submitted upto- June-2020	

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	Dinesh Singh Panwar (Mining Engg) Santwana Kumari Sahu (Geologist) Dinesh Singh Panwar (Manager)		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1) Covered Under Current (o/c)Workings: 14.312 Ha 2)Used for waste Disposal: 2.867 Ha 3) Occupied by Plant,buildings, residential,welfare buildings &roads: 9.18Ha 4) Other Purpose(Green Belt,Top Soil Storage) :7.806 Ha		

9d	Scrutiny of Annual return on afforestation	i) Within Lease Area:3174 trees planted & Survival Rate : 89.00%	-	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	-	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	i) Opening Stock: 302155.00 ii) Production (ton): 132490.00 iii) Closing Stock: 434645.00		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value:Rs0.00 Ex.Mine Price:Rs 265.34/ton. Production Cost : Rs 265.34/ton	Dispatch nil	
9i	Scrutiny of Annual return on fixed assets	Total Value of Fixed Assets: Rs 452876722		
9k	Scrutiny of Annual return on mining machineries	1)Shovel (Hydraulic)- 6.550 CUM 2) Dumper : 55.00Tonne 3)Air Compressor: 400.00 CUM/MN 4) Blast Host Drill : 115.00MM 5) Water Tanker : 9000.00LTR 6) Dozer : 330.00HP		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- The earlier violations pointed out taken Compliance and during present inspection no serious violation found.

(Rajesh Kumar Das, Senior Assistant Controller of Mines)