

MCDR INSPECTION REPORT (2018-19)

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office & designation ,File No.	Shri R.K Das Sr ACOM Raipur Region Indian Bureau of Mines, Raipur,CHG/RAP/LST-78/NGP
2	Date of inspection	19.09.2019
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
10	State	Baloda Bazar
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	Lease period 18/02/2009 to 17/02/2059 supplementary agreement done on 23/12/2017 for extension upto 50 years
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 Bimlendra Jha, MD & CEO Ambuja Cement Ltd, Elegant Business Park, MIDC Cross Roads,Andheri,Mumbai-400059 DOA -01.03.2019
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri N K Nuwal 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	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	Dinesh Singh Panwar BE Mining (20 Yrs) DOA- 25.12.2017
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Santwana Kumari Sahu 25.12.2017

25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modification in approved Mining Plan dated 04/12/2017 for period 2018-19 to 2022-23
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining 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(Open cast, Underground)	Open cast
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 Rs 227.4 lakhs upto 30.09.2023

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.	NA	NA	All exploration Work is 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	Nil	Nil	All exploration Work is 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, Manesian 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)	E609600 to 609850 E609608 to 609750 N2394450 to 2394500 N2394614 to 2394791	E609582 to 609774 E609671 to 609749 N2394359 to 2394500 N2394769 to 2394791	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Implemented	Implemented	
2c	Stripping ratio or ore to OB ratio			

		1:1.05	1:0.32	
2d	Quantity of topsoil generation in Tonne	30000 Tonne	32990 Tonne	
2e	Quantity of overburden generation in Tonne	500000 Tonne	164010 Tonne	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is very less w.r.t the proposals and yet to start dispatch.		

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	500000 Tonne	61545 Tonne	
3c	Recovery of salable/usable mineral from ROM production	100%	Yet to start dispatch	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	
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	Deep hole drilling blasting.
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	The mine yet to start dispatch only top soil and OB removed and top bench limestone stack.	
3m	Total area covered under excavation/pits	10.15 Hectare	11.42 Hectare	
3n	Ore to OB ratio for the pit/mine during the year	1:1.05	1:0.32	
3o	Total area put in use under different heads at the end of year	Pit- 10.15 Waste/reject- 3.42 Others top soil- 1.21 Limestone Stock- 4.04	Pit- 11.42 Waste/reject- 2.37 Others top soil- 0.78 Limestone Stock- 3.75	11.42 (pit, embankment around working pit)
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	- 124945 Ton 115665 on 61545 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,	Yes	Yes	

	OB & mineral reject (Rule 36, 37)			
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Top Soil E609683 to 609882 N2394837 to 2394996 OB Dump E609883 to 610119 N2394869 to 2395072	Top Soil E609901 to 609954 N 2394950 to 2395018 OB Dump E609955 to 610062 N2394946 to 2395032	
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)	Soil is proposed to dump as bund near lease periphery & as mentioned above.	Broadly as per proposal	
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	No major dump	NA	
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 top soil and OB generated and mostly top soil is dump in 7.5 meter safety barrier zone. The mine is new therefore dump size is small and active dump.		

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	Nil	Nil	
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 0.95 hectare 2369 Within ML- 4194 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 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)	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	Mechanical	Mechanical(Crusher and screening installation under progress)	
7c	Different grade of mineral sorted out at mines	Based on software different grade material has been marked in slice plan.	Based on software & blast hole sampling result different grade material has been marked at site/map/blend plan.	
7d	Any beneficiation process at mines	As such, limestone beneficiation is not required except for screening the clayey-soil in the top bench	Crusher and screening installation under progress	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	As mentioned mine is new and no dispatch in 2018-19 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	Separate removal and utilization of topsoil is being done	
8b	Concurrent use or storage of topsoil	Storage not proposed.	concurrent utilization & remaining topsoil is being stored/dumped	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Planned	Top soil stack separately and OB used for mine development (Road etc.) and dump separately.	
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)	Nil	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	Nil	Afforestation done in virgin area as mentioned above	
8g	Survival rate	Not mentioned	88% within lease	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The is still not started dispatch and production is also very less and mostly top soil & OB removed in 2018-19 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 - August 2019 A.R. submitted upto- 2018-2019	

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 & Manager- Shri Dinesh Singh Panwar & Geologist-Santwana Kumari Sahu	Geologist not present during mine visit.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Area for O/C working- 11.42 ha., Waste dump- 5.94 ha., Infrastructure- 9.18 ha.	
9d	Scrutiny of Annual return on afforestation	2369 nos saplings		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	302155 ton		
9g	Scrutiny of Annual return on	Ex. Mine price &	The limestones still not	

	sale value, Ex. Mine price & production cost	production cost Rs 387.22/-	dispatch only production.	
9i	Scrutiny of Annual return on fixed assets	Rs 613615905/-	Mostly of land	
9k	Scrutiny of Annual return on mining machineries	Yes given	Shovel 6.5 cum, Drill m/c 115mm dia., Water tanker 9000 ltr, Dozer 330 hp & Dumper 55 ton	

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

Rule	Nature of Violation observed
11(1)	<p>Mining operations should have been undertaken in accordance with the approved Mining Plan/Modified Mining Plan.</p> <p>The Modified Mining Plan was approved vide letter no. बलोदाबाजार/ चूप /खयो-1127/2017/रायपुर dated 04.12.2017 and following deviation was observed during inspection</p> <p>1.The production proposal is given in 2018-19 is 500000 tons and proposed to blend with Rawan limestone to use the subgrade of rawan mine but actual production is 61545 Tons which only 12% of proposed production and that stack in mine.</p> <p>2. The top soil & OB dumping is proposed in designated area but during mine visit it was observed that limestone is mixed with OB and used for making crusher ramp in lease area and which is in contradiction of vision of mineral conservation.</p>
Rule 55	<p>For the purpose of carrying out reconnaissance, prospecting or mining operations in accordance with these rules,-</p> <p>.every holder of a mining lease shall employ, in case of-</p> <p>iii.category 'A' mines, a whole-time mining engineer and a geologist;</p> <p>but it was observed that the geologist appointed is not working as a full time geologist in this mine and geologist is not present during the inspection or earlier inspection. Which shows the geologist is not performing the duty as per Rule 56 of MCDR, 2017.</p>

(Rajesh Kumar Das, Senior Assistant Controller of Mines)