

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of the Mine, Date of inspection, Accompanying officer	Emami Cement Limestone Mines ,31.08.2017, Shri D.P. Dixit(Mine Manager)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	395.05 ha, Non forest
3	Mine code	38CHG19001
4	IBM Registration Number under rule 45 of MCDR, 1988	16679
5	Name of the lessee, Address, phone, email and fax number	Emami Cement Ltd
6	Village	Risda
7	Taluka/Mandal	Baloda Bazar
8	District	Baloda Bazar-Bhatapara
9	Pincode	493332
10	State	Chhattisgarh
11	Post office	Risda
12	Nearest police station	Baloda Bazar
13	Nearest Railway station	Bhatapara
14	Date of Grant of Mining Lease	12.11.2007
15	Date of Execution	08.09.2009
16	Date of opening of Mine	07.08.2013
17	Date of first Renewal, if applicable and its period & expiry	N.A.
18	Date of second Renewal, if applicable and its period & expiry	N.A.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Vivek Chawla, Dated 04.02.2017
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Dilip Sharma, Dated 04.02.2017
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri D.P. Dixit (25.05.17) Emami Cement Ltd dinesh.dixit@emamicement.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Jaiprakash Dwevedi, Dated 25.05.2017 Emami Cement Ltd Jaiprakash.dwevedi@emamicement.com
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri M. Siddik Dated 25.05.17, Shri Satyanjay Kumar Chaturvedi (Dated - 21.05.16)
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	05.08.2016(Modification in approved Mining Plan)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	19.01.2015(Mining Scheme)
27	Mineral(s) granted in lease and proved for mining	Limestone (Cement)
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

S.N.	Item	Proposals		Actual work		Remarks
1a	Backlog of previous year	Nil		Nil		2016-17
1b	Exploration over lease area for Geological axis 1 or 2.	Nil		Nil		Total area covered under G1
1c	Exploration Agency & Expenditure in lakh Rupees during the year	N.A.		N.A.		2016-17
1d	Balance area to be explored to bring Geological axis in 1 or 2	N.A.		Nil		2016-17
1e	Balance reserves as on 01.04.2017	Under 111 155.28 MT(Cement Grade)	Under 111 83.81 MT (Low grade)			Under 222&211 72.847 M.T.Area blocked in 7.5 meter safety zone due to power line and nala.
1f	General remarks of inspecting officer on geology, exploration etc.					The ML area is almost covered under G1 category.

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area			
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	One bench in top Soil 1-3 mtrs, OB- 3.5 mtrs	One bench in top Soil 1-3 mtrs, OB- 3.5 mtr	2016-17
2c	Stripping ratio or ore to OB ratio	1:046	0.70	2016-17
2d	Quantity of topsoil generation in m ³	658236 m ³	162238.82 M ³	2016-17
2e	Quantity of overburden generation in m ³	217842 m ³	965540 m ³	OB&IB
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.			2016-17

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2 Nos	2 Nos	2016-17
3b	Quantity of ROM mineral production proposed	5.43 MT	0.986 MT	Less production due to CTO received dated 30.05.16 & less requirement of Plant.

3c	Recovery of salable/usable mineral from ROM production	90%	60%	Due to high intercalation of clay.
3d	Quantity of mineral reject generation	Not mentioned specifically.	Screen reject 19724.54 tons	2016-17
3e	Grade of mineral reject generation and threshold value declared	Threshold value Cao - 34%	Mineral reject Cao 25.06 %	2016-17 Analy Dated 28.01.2017 SHEET ATTACHED
3f	Quantity of sub-grade mineral generation	N.A.	N.A.	2016-17
3g	Grade of sub-grade mineral generation	N.A.	N.A.	2016-17
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	2016-17
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	N.A.	N.A.	2016-17
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	2016-17
3k	Provision of mining machineries in mineral benches	Yes	Yes	2016-17
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Top soil/OB benches 1-5 meter and ore benches 10 meter	Broadly as per proposal	2016-17
3m	Total area covered under excavation/pits	28.61 Ha.	28.02 ha	2016-17
3n	Ore to OB ratio for the pit/mine during the year	1:0.59	1:0.7	2016-17
3o	Total area put in use under different heads at the end of year	i) Total Exploitation area-28.61 ha.	i)Total exploitation area -28.02 ha ii)Road, plant ,buildings -5.72	2016-17
3p	Production of ROM mineral during last five-year period, as applicable	Last Five year proposal 2012-13 _ 3.17 MT 2013-14 _ 3.17 MT 2014-15 _ 0.5 MT 2015-16 _ 0.5 MT 2016-17 _ 5.5 MT Total Propose Production- 12.84 Million Tons	Last Five year 2012-13 _ Nil MT 2013-14 _ Nil MT 2014-15 _ Nil MT 2015-16 _ Nil MT 2016-17 _ 0.985 MT Total production- 985990 Metric Tons	Less Production Due to Consent to Operate Commercial awaited till 30.05.16
3q	General remarks of inspecting officer on method of mining etc.	The method of mining as proposed opencast and waste generation is more due to IB& OB generation in top benches as compared to proposal.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	Yes	2016-17
4b	Location of topsoil, OB & mineral reject dumps	Location of OB- E614580-614466 N2393114-2392935	Location of OB- E 614546.6- 614396.6 N2393097.8-	2016-17

			2392932.0	
4c	Number of dumps within lease area and outside lease area	3 nos	3 nos & few dumps along 7.5 meter safety barrier both top soil & Waste.	Within the lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South West of Lease area & Backfilling	South West of Lease area. Two waste dump along ML boundary in NE direction.	
4e	Number of active & alive dumps	01No	01No	
4f	Number of dead dumps	01no	01no	
4g	Number of dumps stabilised	1 no	1 no	
4h	Whether Retaining wall or garland drain all along dumps are there	No	No	
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	The waste generation is more as compare to proposal and as the mine is new therefore mostly waste dump is active. Drainage has been made to divert rainwater.		

Solid Waste Management-Backfilling-N.A.

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	N.A	N.A.	As the mine is new therefore area not matured for backfilling.
5b	Area under backfilling of mined out area	N.A	N.A.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	N.A	N.A.	
5d	Total area fully reclaimed & rehabilitated	N.A	N.A.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mine is recently started and area is still not matured for backfilling.		

Progressive Mine Closure Plan

S.N.	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.	Proposal given	Submitted	2016-17

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 2016-17 rehabilitation vi) Cost incurred on watch & care during the year	i) N.A. ii) 2.91 Ha iii) 7275 nos within lease). iv) 24900 nos. v) N A vi) -	i) N.A. ii) NA iii) NA iv) NA v) N.A. vi)NA	2016-17
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L *B * D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i) N.A.	i) N.A.	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) N.A.	i) N.A.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal given	Monthly report preparation of Environment monitoring.	2016-17
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Broadly complied		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sorting	Sorting	2016-17
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	2016-17
7c	Different grade of mineral sorted out at mines	N.A.	N.A.	2016-17
7d	Any beneficiation process at mines	No beneficiation	Crushing & Screening	2016-17
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The mine is started production in this financial year therefore most working is done in top benches and in top benches waste generation is more and Sio2 is also more. To maintain grade screening is done and around 15% reject is reported.		

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Separate stacking & Plantation.	
8b	Concurrent use or storage of topsoil	Plantation	Plantation	2016-17
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule	Yes	Yes	

	33)			
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	N.A.	N.A.	N.A.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N.A.	N.A.	N.A.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	24900 nos	Cumulative plantation Within the Lease-32274 nos Outside of lease-40500nos	2016-17
8g	Survival rate	80%	75%	2016-17
8h	Water sprinkling on roads to control airborne dust	By water tanker	By water tanker	2016-17
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	As mentioned above the mine was recently start production and production as compare to production is very less. Afforestation is done broadly as per proposal therefore no adverse impact observed.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Annual Return for 2015-16 submitted. Monthly return submitted till April 2017.		Annual Return of 2016-17 to be submitted.
S.N.	Item	Details GIVEN in A.R.	2016-17	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information furnished	Shri Jayprakash Diwedi, Mining Enginee, Shri Mahammad Siddik, Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	O/C working-28.028 ha., waste disposal-8.02 ha., Infrastructure-5.7205 ha., other purpose-1.481 ha.	
9d	Scrutiny of Annual return on afforestation		7997 nos saplings within lease area	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		19724 te and grade 28% CaO	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Stock Nil		
9g	Scrutiny of Annual return on sale value, Ex. Mine price &	Ex-mine price & Cost of production-		

	production cost	219.42 Rs,		
9h	Scrutiny of Annual return on fixed assets	Fixed asset value-2334390783		
9i	Scrutiny of Annual return on mining machineries		Shovel(hydraulic of 6.5 m3 capacity ,Dumper 55 te ,Dozer 354 HP& Drill m/c of 115 mm	

Details of violations observed during current inspection and compliance position of earlier violation pointed out:-The mine is inspected for processing of Mining Plan and earlier violation pointed under Rule 26 & 33 is complied and violation under rule 11 for deviation in last approved plan is incorporated in present submission.

Rajesh Kumar Das, SrACOM,