

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of the Mine	Arasmeta Limestone Mine Lease No.1&2
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total area – 499.987 Ha, All Non-Forest area
3	Minecode	38MPR06003
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/378/2011
5	Name of the lessee, Address, phone, email and fax number	M/S Lafarge India Pvt. Limited,Equinox Business Park,Tower-3,Kurla, Mumbai Phone:02266306511 E mail:ramesh.chandra@lafarge.com Fax:022-66306510
6	Village	Arasmeta
7	Taluka/Mandal	Akaltara
8	District	Janjgir-Champa
9	Pincode	495663
10	State	Chattisgarh
11	Post office	Gopalnagar
12	Nearest police station	Mulmula
13	Nearest Railway station	Akaltara
14	Date of Grant of Mining Lease	26.04.2000(amalgamation of lease no.1 & 2)
15	Date of Execution	31.05.79
16	Date of opening of Mine	
17	Date of first Renewal, if applicabl and its period & expiry	31.05.1999
18	Date of second Renewal, if applicabl 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	Mr.Ujjwel Batria,Lafarge India Limited,Equinox Business Park,Tower-3,East Wing,4 th Floor of Bandra,Kurla Complex,LBS Road Kurla (W),Mumbai Date of Appointment:

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr.Ramesh Chandra Pathak,VP Arasmeta Cement Plant,Gopalnagar,District-Janjgir-Champa,Phone No.-07817-234234,Date of appointment-02.07.2014
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr.Ritesh Kaimal,Arasmeta Cement Plant,Gopalnagar,Dist-Janjgir-Champa(C.G.),Phone No.9893019619 Date of appointment in mines-16.05.2016
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr.Rajesh Rathore(M.Tech. Mining),Arasmeta Cement Plant,Gopalnagar,Tehsil-Akaltara,Dist.:Champa-Janjgir.Phone No.-7389949550,e-mail:rajeshkumar.rathore@lafarge.com Date of appointment in mines-16.05.2016
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri.Ajay Pratap Singh(Msc & PhD in Geology),phone No.7898900524,mail ID-ajay01.singh@lafarge.com
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mining plan with Progressive Mine Closure Plan under Rule 22(6) of MCR,1960, letter no. 214(3)/2011-MCCM(CZ)/MP-20 dated 31.01.2012 for the period 2011-12 to 2015-16.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Scheme of Mining letter No. 314(3)/2012-MCCM (CZ)/MS-23 dated 06.03.2013 for the period 2011-12 to 2015-16.
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

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	2012-13:10 nos 2013-14:15 nos 2014-15:15 nos Total 40 nos boreholes in scheme period.	2014-15:15 nos 2015-16:14 nos, Total 29 nos bore holes reported.	
1b	Exploration over lease area for Geological axis 1 or 2.	Broadly the lease area to be covered	Approx.130 ha.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year		Shriram Gemecom, Bilaspur, 23 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2		Approx 30 ha.	
1e	Balance reserves as on 01.04.2015	35 million tons	36 million tons	
1f	General remarks of inspecting officer on geology, exploration etc.			The deposit is very uniform and sufficient exploration is done.

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	649986.58 E to 638384.28 E 2430482.23 N to	Broadly as per proposal	

		2430380.42 N		
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	One bench in soil and 3 benches in limestone	One bench in soil and 4 benches in Limestone	
2c	Stripping ratio or ore to OB ratio	0.15		
2d	Quantity of topsoil generation in m ³	20000 m3	19745 m3	
2e	Quantity of overburden generation in m ³	130000 MT	50689 MT	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.			The development is broadly done within a limit of proposal given

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	720000 MT	275269 MT	
3c	Recovery of salable/usable mineral from ROM production	No Proposal	NA	
3d	Quantity of mineral reject generation	No Proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No Proposal	NA	
3f	Quantity of sub-grade mineral generation	No Proposal	Nil	
3g	Grade of sub-grade mineral generation	No Proposal	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out	No Proposal	NA	

	for sub-grade mineral and reject																															
3j	Provision of drilling & blasting in mineral benches	With deep hole drilling & blasting using 115mm drill machine	As per proposal																													
3k	Provision of mining machineries in mineral benches	Yes	As per proposal	Excavators capacity- 1.8/1.2 m ³ , tippers 20 tons, rock breaker																												
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	As per proposal	6 meter avg. bench height.																												
3m	Total area covered under excavation/pits	12.78 ha.	10.68 ha.																													
3n	Ore to OB ratio for the pit/mine during the year	No specified proposal	1:0.122																													
3o	Total area put in use under different heads at the end of year	No specific proposal given yearwise	Total excavated area-10.68 ha., afforestation-10.42 ha.																													
3p	Production of ROM mineral during last five-year period, as applicable	<table border="1"> <thead> <tr> <th>Year</th> <th>Proposed (mt)</th> </tr> </thead> <tbody> <tr> <td>2011-12</td> <td>100000</td> </tr> <tr> <td>2012-13</td> <td>720000</td> </tr> <tr> <td>2013-14</td> <td>720000</td> </tr> <tr> <td>2014-15</td> <td>720000</td> </tr> <tr> <td>2015-16</td> <td>720000</td> </tr> <tr> <td>Total</td> <td>2980000</td> </tr> </tbody> </table>	Year	Proposed (mt)	2011-12	100000	2012-13	720000	2013-14	720000	2014-15	720000	2015-16	720000	Total	2980000	<table border="1"> <thead> <tr> <th>Year</th> <th>Actual (mt)</th> </tr> </thead> <tbody> <tr> <td>2011-12</td> <td>80658</td> </tr> <tr> <td>2012-13</td> <td>253774</td> </tr> <tr> <td>2013-14</td> <td>333063</td> </tr> <tr> <td>2014-15</td> <td>308311</td> </tr> <tr> <td>2015-16</td> <td>275269</td> </tr> <tr> <td>Total</td> <td>1251075</td> </tr> </tbody> </table>	Year	Actual (mt)	2011-12	80658	2012-13	253774	2013-14	333063	2014-15	308311	2015-16	275269	Total	1251075	
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3q	General remarks of inspecting officer on method of mining etc.	The method of mining proposed opencast Mechanised	The working has been carried out broadly as per proposal																													

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping proposal given for soil & waste	Broadly as per proposal	
4b	Location of topsoil, OB & mineral reject dumps	649986.058 E to 638384.280 E, 2430482.23 N to 2430380.42 N	Broadly as per proposal	
4c	Number of dumps within lease area and outside lease area	5 dumps within ML & outside ML nil	as per proposal, Outside ML no dump	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	In ML area	as per proposal	
4e	Number of active & alive dumps	2 active dump	as per proposal	
4f	Number of dead dumps	Three	Three	
4g	Number of dumps stabilised	Two	Two	
4h	Whether Retaining wall or garland drain all along dumps are there		yes	
4i	Length of Retaining wall or garland drain all along dump	NA	30000 meter garland drain	
4j	Number of settling ponds	one	one	
4k	Specific comments of inspecting officer on waste dump management			During inspection it was observed that two dumps are active and rest are old dumps and some plantation done on old dumps and somewhere by natural

				vegetation dump is stabilised
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Solid Waste Management-Backfilling

S.N.	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			There is no reclaimed and backfilled area.

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.		yes	
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	Nil	Afforestation done-10.42 ha.,no. of saplings planted during 2015-16:5000 nos,cumulative no of plants-31775 nos.	

	vi) Cost incurred on watch & care during the year			
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	Nil	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	quarterly	complied	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations			

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	The mechanical method used sometimes to separate intercalated waste.
7c	Different grade of mineral sorted out at mines	Nil	Nil	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral			No mineral beneficiation

	conservation & beneficiation issues			done.
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Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Top soil used for plantation	
8b	Concurrent use or storage of topsoil	One top soil dump	As per proposal	Partly used for afforestation and rest put in dump
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One reject dump	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)		Yes	
8g	Survival rate		70%	
8h	Water sprinkling on roads to control airborne dust	Water Tanker 20 KL	Water Tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Due to some plantation and measures taken for dust suppression, etc no major adverse effect observed on aesthetic beauty in and around mines.

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	MR submitted upto april'16 & AR upto 2014-15		
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			AR not submitted for 2015-16
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.			
9d	Scrutiny of Annual return on afforestation			
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)			
9f	Scrutiny of Annual return on ROM stock and/or graded ore			
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost			
9i	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries			

Details of violations observed during current inspection and compliance position of earlier violation pointed out:- Rule 13(1) of MCDR,1988 found violated.

**Rajesh Kumar Das, Sr.ACOM, DOI-25.05.2016
(Name of inspecting officer with designation and date)**