

MCDR INSPECTION REPORT

**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	B.L.Gurjar , DCOM
2	Date of inspection	21/11/2015
3	Name of the Mine	Sonadih Limestone Mines
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest land : NIL Non forest Land : 444.763 ha Total lease area : 444.763 Ha
5	Minecode	38MPR28010
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/378/2011
7	Name of the lessee, Address, phone, email and fax number	Sonadih Cement Plant Lafarge India Pvt Ltd PO-Raseda, Tehsil-Balodabazar District-Balodabazar-Bhatapara State-Chhattisgarh, Pin code- 493332 Phone- 07727-72226 Fax-07727-72227 Email-sanjay.joshi@lafargeindia.in
8	Village	Raseda
8	Taluka/Mandal /District	Balodabazar
10	State	Chhattisgarh
11	Post office & PIN	493332
12	Nearest police station	Balodabazar
13	Nearest Railway station	Bhatapara
14	Date of Grant of Mining Lease	20 Dec''1985
15	Date of Execution	15 Jan''1986
16	Date of opening of Mine	12 Dec''1989
17	Date of first Renewal, if applicable and its period & expiry	23 June''2010 For the period 15.01.2006 to 14.01.2026 (20 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	Mr Ujjawal Batria Equinox Business Park (Peninsula Techno Park), Tower 3, East Wing, 4th Floor, Off Bandra-Kurla Complex, LBS Marg, Kurla-West , Mumbai, Maharashtra-400070 +91 (0) 22 61202628
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr Sanjay Joshi Sr. Vice President, SCP- Lafarge India Private Limited, +917727272226

22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Nitesh Raghuvanshi Sonadih Limestone Mine District-Balodabazar-Bhatapara  Post-Raseda-493332+91-7828685486
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Vedprakash Dewangan Sonadih Limestone Mine District-Balodabazar-Bhatapara Post-Raseda-493332 +91-9893019629 Yes,
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mr. Rajesh Ranjan Singh Lafarge India Lvt Ltd, EOO DLF IT Park – I, Block A1, 8th Floor, New Town, Rajarhat, Kolkata – 700156, India 91-9163323296
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 approval letter no: 314 (3)/2006-MCCM (CZ)/MP-23 dated 21.03.2007.  For the period up to 31-March-2011
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Approved Mining scheme:  Date of Approval : 16.08.2011
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

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –  
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.	1 pits	1 pits	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	By Own	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2015	31 million tonnes	31 million tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Complete area is explored.		

## 2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Western Part	Western part	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:0.002	1:0.023	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	147998 Cum	52579 CuM	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development is in order		

## 3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	5.2 Million tonne	3.41 Million	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	83465 Tonnes	81565 Tonnes	
3e	Grade of mineral reject generation and threshold value declared	CaO< 34% MgO> 4%	CaO< 34% MgO>4%	
3f	Quantity of sub-grade mineral generation	Nil	NIL	
3g	Grade of sub-grade mineral generation	CaO: 34%-39% MgO< 4%	CaO: 34%-39% MgO<4%	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	Mechanised by lifting from different benches.	
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 Spacing x Burden 4(m) x 3(m) Blasting – Non Electrical Sequential firing with SME	Yes Spacing x Burden 4(m) x 3(m)  Blasting – Non Electrical Sequential firing with SME	

3k	Provision of mining machineries in mineral benches	Shovel – 4 Nos. Dumper- 13 Nos.	Shovel – 4 Nos. Dumper- 13 Nos.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Proposed – 8-10 M	Yes Proposed – 8-10 M	
3m	Total area covered under excavation/pits	129.6 Hec	107 Hec	
3n	Ore to OB ratio for the pit/mine during the year	1:0.040	1:0.022 year 2014-15	
3o	Total area put in use under different heads at the end of year	Pit- 129.6 Waste/reject- 6.2 Hec Others- 81.67	Pit- 107 Hec Waste/reject- 5.2 Hec. Others- 84.100 Hec	
3p	Production of ROM mineral during last five-year period, as applicable	Yr 2011-12: 5000000 Yr 2012-13: 5000000 Yr 2013-14: 5200000 Yr 2014-15: 5200000	Yr 2011-12: 3760775 Yr 2012-13: 3440909 Yr 2013-14: 3585611 Yr 2014-15: 3414313	
3q	General remarks of inspecting officer on method of mining etc.	Production is as per proposal given in approved mining plan.		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	North West Side of Lease Area	OB Dump: E 624700-624500 N 2406350 - 2406100	
4b	Location of topsoil, OB & mineral reject dumps	NW	NW	
4c	Number of dumps within lease area and outside lease area	Inside – 2 Outside - 0	Inside – 2 Outside - 0	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside ultimate pit limit	OB Dump: E 624700-624500 N 2406350 - 2406100	
4e	Number of active & alive dumps	OB - 1 Sub Grade - 1	OB - 1 Sub Grade - 1	
4f	Number of dead dumps	0	0	
4g	Number of dumps stabilised	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Yes	Yes	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer	Waste is dumped as per proposal given in approved mining plan.		

### 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 32)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	NA	12.300 Hec. (Protective Bund Along the River)	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Waste is dumped as per proposal given in approved mining plan.		

### 6.0 Progressive Mine Closure Plan

SN	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 Plantation – 5250 Land to be Degraded- 11.548 hec Land to be reclaimed- Nil OB Quantity – 147998 CUM	Yes Plantation – 5000 Land to be Degraded- 6.381 hec Land to be reclaimed- Nil OB Quantity – 52579 CUM	
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	i)NIL ii)81.67 Hect iii)5250 saplings iv) NA	i)NIL ii) 84.1 Hect iii)5000 saplings (WML) iv)6.25 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	NA	NA	

	iii) Afforestation on the backfilled area iv) Rehabilitation by making 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	i) Nil ii) Nil iii) Nil	i) Nil ii) Nil iii) Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air- Wet Drilling Water-Check Dams Noise-Control Blasting In house environment monitoring cell.	Air- Within Permissible Limit Water- Within Permissible Limit Noise- Within Permissible Limit	
6f	General remarks of inspecting officer on PMCP compliance & progressive	EMP parameters are monitored and corrective measures are taken .		

#### 7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	YES – Different benches to be opened	YES – Operating 4 benches for blending of limestone	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines	YES	YES	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Operating 4 benches for blending of limestone.		

## 8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	YES Plan – 147998 M3 ( Top Soil + OB)	YES Actual – 52579 M3 ( Top Soil + OB)	
8b	Concurrent use or storage of topsoil	Use for Plantation	Use for Plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	YES	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Back filling started in small part of Mines out area .	
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 41)	Plantation on WML and OML proposed	Cumulative Plantation WML: 3157175 nos ONM: 267856 nos	
8g	Survival rate	75 %	80%	
8h	Water sprinkling on roads to control airborne dust	YES	YES	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	General Aesthetic beauty in and around mines are good.		

## 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. and AR. submitted upto- FY 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,	Yes	Nil	

	Geologist and Manager			
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Provided	Nil	
9d	Scrutiny of Annual return on afforestation	5000 nos	Nil	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Plantation – 5000 Land to be Degraded- 6.381 hec Land to be reclaimed- Nil OB Quantity – 52579	Nil	
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	Ex mines price Rs 195. /tonnes	Ex mines price Rs 195.87 whereas cost of production Rs 22.45 /tonnes	Violation pointed out to correct the same
9i	Scrutiny of Annual return on fixed assets	Provided	Nil	
9k	Scrutiny of Annual return on mining machineries	Shovel – 4 Nos. Dumper- 13 Nos.	Nil	

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

During the inspection violation of rule 14 and 45(7) was pointed out to lessee on 1/1/2016.

B.L.Gurjar  
DCOM