

**MCDR INSPECTION REPORT****1.0 GENERAL**

<b>S. No</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine Name of inspecting officer from IBM and Date of Inspection	Arasmeta Limestone Mines (499.987 Hectare) Rajesh Kumar Das,09.06.2017
2	Total Lease area (Ha) with breakup of Non Forest and forest land	Private land 364.917 hectare, Govt land 135.04 Hectare
3	Mine Code	38MPR06003
	IBM registration Number under rule 45 of MCDR, 1988	IBM/378/2011
5	Name of The Lessee, Address Phone Number, email and Fax No	LAFARGE INDIA LIMITED of M/s Nuvoco vistas corporation limited (formerly Lafarge India Limited ) Nominated owner Mr. Ujjwal Batria, Equinox Business Park Tower 3, East Wing 4th Floor, off Bandra -Kurla Complex, LBX road , Kurla West Mumbai-400070, India . Tel: 022-66306511, Fax: 02266306510 Website-www. nuvoco.in
6	Village	Arasmeta
7	Taluka/ Mandal	Akaltra
8	District	Janjgir Champa
9	Pin code	495663
10	State	Chhattisgarh
11	Post office	Gopalnagar
12	Nearest Police Station	Mulmula
13	Nearest Railway Station	Akaltra
14	Date of Grant of Mining Lease	24/05/1979
15	Date of execution	31/05/1979
16	Date of opening of mine	
17	Date of first Renewal, if applicable and its period and expiry	15/01/2001 from 31/05/1999 for the period of twenty year
18	Date of second Renewal, if applicable and its period and expiry	13.04.2017 from 31.05.2019 to 31/03/2030
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 no, email, fax number and date of appointment	Nominated owner: Mr. Ujjwal Batria, Equinox Business Park Tower 3, East Wing 4th Floor, off Bandra - Kurla Complex, LBX road, Kurla West Mumbai-400070, India. Tel: 022-66306511, Fax: 02266306510, Mail ID- ujjwal.batria@nuvoco.in, Website-www. nuvoco.in, Date of appointment-01/01/2011
21	Name of the Mine Agent with address, phone no, email, fax number and date of appointment	Mr. R.C. Pathak , Agent & Plant Head Arasmeta Cement Plant of M/s Nuvoco vistas corporation limited (formerly Lafarge India Limited ), P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh, Phone no- 07817-233234, Fax No -07817-234237,234286 Mail ID- ramesh.chandra@ nuvoco.in, Date of appointment- 01/07/2014
22	Name of the Mines Manager with address, phone no, email, fax number and date of appointment	Mr. Ritesh Kaimal, Arasmeta Cement Plant of M/s Nuvoco vistas corporation limited (formerly Lafarge India Limited ), P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh, Phone no- 9893019619 Fax No -07817-234237,234286 Mail ID- ritesh.kaimal@ nuvoco.in, Date of appointment-16/05/2016
23	Name of the Mining Engineer, qualification and total experience with address, phone no, email, fax number and date of appointment in mine	Mr. Rajesh Kumar Rathore, Arasmeta Cement Plant of M/s Nuvoco vistas corporation limited (formerly Lafarge India Limited ), P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh, Phone no- 7389949550 Fax No -07817-234237,234286 Mail ID- rajeshkumar.rathore@nuvoco.in, Date of appointment-16/05/2016
24	Name of the Geologist and Mining Engineer, appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 and 44	Mr. Ajay Pratap Singh, Arasmeta Cement Plant of M/s Nuvoco vistas corporation limited (formerly Lafarge India Limited ), P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh, Phone no 7898900524 Mail ID- ajay01.singh@nuvoco.in, Date of appointment- 02/01/2012
25	Date of approval of Mining Plan/ Modified Mining plan with five year period and specific condition in approval letter if any.	Bilas/Chup/Khayo-80/Nag/2015/22 , Raipur dated19/08/2016
26	Date of approval of Mining Scheme/ Modified Scheme 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 (Opencast, Under ground)	Opencast
29	Category (Fully Mechanized, others or Manual)	Fully Mechanized
30	Captive/ Non Captive	Captive

**Scientific Mining: Compliance of proposals of approved mining plan/ Scheme of Mining**

## Exploration

S. No	Items	Proposal	Actual Works	Remarks
1a	Backlog of the previous year	10	11	
1b	Exploration over area for geological axis 1 &2	101.52 hectare proposed for G1 category Exploration	110.91 Hectare area explored	
1c	Exploration Agency & Expenditure in lakh during the year	Shreeram Gemicon Pvt Ltd	13 lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	8 Hectare (proposal in 2016-17)	10 Hectare	Area under G1-360.35 hectare, area under G3-36.82Hectare and area under G4-100.81 Hectare
1e	Balance reserve as on 01.04.2017	<b>Category 111</b> - 20.96 million tonnes (Cao more than 42), 6.48 ( million tonnes) and <b>category 211</b> - 11.2 million tonnes, <b>Category 311</b> -1.18 million tonnes and in <b>category 333</b> -9.98 million tonnes		
1f	General Remarks of inspecting officer on Geology Exploration etc	The area is almost explored and geology is simple nearly flat deposit.		

## 2.0 Development

S. No	Items	Proposal	Actual Works	Remarks
2a	Location and development with respect to lease area	Marked in First year development plan (2016-17) of approved mining plan	As per proposal	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	One bench soil and four limestone bench	As per proposal	
2c	Stripping Ratio or Ore to OB ratio	1:0.41	1:0.49	
2d	Quantity of Top soil generation in M3	244956	118083	
2e	Quantity of overburden generation in MT	819220 MT	893563 Mt (soil177124 and rock OB-716439)	
2f	General Remarks of inspecting officer on development of pit with respect type of deposit etc.	The development is almost as per proposal with excavator and dumper combination and broadly the bench height proposed..		

## 3.0 Exploitation

S. No	Items	Proposal	Actual Works	Remarks
3a	Number of proposed pit for production	Three	Three	Pit no 1, Pit no 1 ext and pit no2
3b	Quantity of ROM mineral production proposal	2043985 MT	1813006	Due to major plant shut down
3c	Recovery of salable/usable mineral from ROM production	83	83	
3d	Quantity of Mineral Reject/subgrade generation	337438 MT	181300 MT	
3e	Grade of mineral reject generation and threshold value declared	CaO between 39-34% and Mgo more than 4%	CaO between 38-34% and Mgo more than 4%	
3f	Quantity of Sub grade mineral generation	337438 MT	181300 MT	
3g	Grade of sub grade mineral generation	CaO between 39-34% and MgO more than 4%	CaO between 38-34% and MgO more than 4%	
3h	Manual /Mechanized method adopted for segregating from ROM	Mechanized	By sorting	
3i	Any analysis or beneficiation study proposed & carried out for sub grade mineral and reject	By blending	By blending	
3j	Provision of drilling and blasting in mineral benches	yes	As per mining plan	
3k	Provision of mining machineries in mineral benches	Yes , HEMM	As per proposal	
3l	Whether height of benches in overburden and mineral suitable to method of mining proposed in MP/SOM	Yes- for soil 5 meter average ( RL 242 and above) and for mineral 24 meter (RL242 to 218)	As per proposal	
3m	Total area covered under excavations pit	174.95 hectare	174.2 Hectare	
3n	Ore to OB ratio for the pit/mine during the year	1:0.41	1:0.49	
3o	Total area put in use under different heads at the end of the year	6.5 hectare	6.3 hectare	

3p	Production of ROM mineral during last five year period, as applicable	10771298 MT	8789726 MT	
3q	General remarks of inspecting officer on method of mining etc	The method of mining is as per proposal opencast mining with excavator dumper combination and deep hole drilling blasting.		

#### 4.0 Solid waste management dumping

S. No	Items	Proposals	Actual Works	Remarks
4a	Separate dumping of topsoil, OB and mineral reject (Rule 32,33)	Yes	As per proposal	
4b	Location of topsoil, OB & Mineral reject dumps	Marked in First year development plan (2016-17) of approved mining plan	As per proposal	
4c	Number of dumps with in lease area and outside the lease area	Within lease area 4 and outside lease area 0	Within lease area 4 and outside lease area 0	
4d	Location of dumps with respect to ultimate pit limit (Rule 16)	Marked in First year development plan (2016-17) of approved mining plan	As per proposal	
4e	No of active and alive dumps	0	0	Dumping in backfilling area
4f	No of dead dumps	4	4	
4g	No of dump stabilized	4	4	
4h	Whether retaining wall or garland drain all along dumps are there	Yes	yes	
4i	Length of Retaining wall or garland drain all along dumps	3.5	3.5	
4j	Number of settling pond	4	4	

4 k	Specific comments of inspecting officer	Dumping and backing are broadly as per proposal and systematic.
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#### 5 Soil waste Management-Backfilling

S. No	Items	Proposals	Actual Works	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	In pit no1 and pit no 2 area marked in first year development plan	As per proposal	
5b	Area under backfilling of mined out area	3.93 (FY2016-17)	3.2	Total backfilling area 21.889 hectare
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area ( rule 32)	plantation	plantation	
5d	Total area fully reclaimed and rehabilitated	37.46	37.46	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The backfilling and reclamation is done broadly as per proposal.		

#### 6.0 Progressive Mine Closure Plan

S. No	Items	Proposals	Actual Works	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly- Rule 22E (2). Details should be given in format as given in Annexure 20	Yes	Not submitted	
6b	Management of worked/mined out benches 1) 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	yes	Rehabilitated area 37.46 hectare , 9100 saplings during year2016-17, cumulative nos of plants -606469 nos and survived -424528 nos	
6c)	Compliance on reclamation and rehabilitation by backfilling i) voids available for backfilling (LxBXD) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) any other specific means	yes	As per proposal	
6d	Compliance of rehabilitation of waste land with in lease area i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	By backfilling and plantation	By backfilling and plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	yes	As per guidelines and proposal	
6f	General remarks of inspecting officer on PMCP compliance & Progressive	Broadly the work has been done as per the proposal i.e. afforestation,dumping and monitoring of Air,water,noise,etc..		

#### 7.0 Mineral Conservation

S. No	Items	Proposals	Actual Works	Remarks
7a	ROM mineral dispatch or grade wise sorting with in lease area	yes	As proposal	

7b	Method of grade wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of Mineral sorted out at mines	yes	yes	
7d	Any beneficiation process at mines	By blending	By blending	
6e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The ROM is directly feed into crusher and the OB is dumped as per the proposal.		

### 8.0 Environment

S. No	Items	Proposals	Actual Works	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	yes	
8b	Concurrent use or Storage of topsoil	Plantation	Plantation	
8c	Separate dumps for overburden waste rock reject and fines (Rule 33)	yes	yes	
8d	Use of overburden waste rock , reject and fines dumps for restoring the land to its original use	N/A	N/A	
8e	Phased restoration reclamation and rehabilitation of lands affected by mining operations (Pits , dumps etc)	yes	As per proposal	
8f	Baseline information on existence of plantation & additional plantation done (rule 41)	5000Plantation	9100Plantation	
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Yes	By water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The afforestation is done broadly as per proposal and water sprinkling in haul roads for dust suppression done regularly as reported therefore no adverse impact observed.		

### 9.0 Compliance of Rule 45

S. No	Items	Comments	Remarks
9a	Status of submission of monthly and annual returns	M.R. submitted upto..May 2017 A. R. Submitted upto- will be submitted before 1 <sup>st</sup> July ( First year of working)	

S. No	Items	Details given in A. R	Observation of inspecting officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	NA	A.R. for 2016-17 still the date of inspection not submitted.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	NA	NA	
9d	Scrutiny of Annual return on afforestation	NA	NA	
9e	Scrutiny of Annual return	NA	NA	

	on mineral reject generation (grade and quantity)			
9f	Scrutiny of Annual return on ROM stock and/or grade ore	NA	NA	
9g	Scrutiny of Annual return on sale value, Ex mine price and production cost	NA	NA	
9h	Scrutiny of Annual return on fixed assets	NA	NA	
9i	Scrutiny of Annual return on mining machineries	NA	NA	

Details of violations observed during current inspection and compliance position of earlier violation pointed out:-The Rule 26 & 33 of MCDR, 2017 found violated.

(Name of inspecting officer with designation and date)  
Rajesh Kumar Das, Senior Assistant Controller of Mines, D.O.I-09.06.2016