

MCDR INSPECTION REPORT		
1.0 GENERAL		
S. No	Particulars	Details
1	Name of inspecting office & designation ,Accompanying Person	Shree Rajesh Kumar Das (Sr. Asst. Controller of Mines),Shri Ritesh Kaimal, Manager Mine & Shri Ajay Pratap, Geologist
2	Date of inspection	21.06.2019
3	Name of the Mine	Arasmeta Limestone Mines (499.987 Hectare)
4	Total Lease area (Ha) with breakup of Non Forest and forest land	Private land 364.917 hectare, Govt land 135.04 Hectare
5	Mine Code	38MPR06003
6	IBM registration Number under rule 45 of MCDR, 1988	IBM/378/2011
7	Name of The Lessee, Address Phone Number, email and Fax No	M/s Nuvoco vistas corporation limited 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
8	Village	Arasmeta
9	Taluka/ Mandal	Akaltra
10	District	Janjgir Champa
11	Pin code	495663
12	State	Chhattisgarh
13	Post office	Gopalnagar
14	Nearest Police Station	Mulmula
15	Nearest Railway Station	Akaltra
16	Date of Grant of Mining Lease	24/05/1979
17	Date of execution	31/05/1979
18	Date of opening of mine	
19	Date of first Renewal, if applicable and its period and expiry	15/01/2001 from 31/05/1999 for the period of twenty year i.e upto 30.05.2019.
20	Date of second Renewal, if applicable and its period and expiry	According to section 8A of Mines & Mineral (Development and regulation ordinance 2015 the period of mining lease shall be extended from 31.05.2019 to 31/03/2030 (amendment lease agreement done)
21	Date of submission of renewal application if Mining operations are continuing under deemed extension	N/A

22	Name of the Nominated Owner with address, phone no, email, fax number and date of appointment	Nominated owner: Mr. Jayakumar Krishnaswamy M/s Nuvoco vistas Corporation limited Equinox Business Park Tower 3, East Wing 4th Floor, off Bandra -Kurla Complex, LBX road , Kurla West Mumbai-400070, India .Phone no 022-66306511, email-jayakumar.krishnaswamy@nuvoco.in Website-www. nuvoco.in, Date of appointment-01/11/2018
23	Name of the Mine Agent with address, phone no, email, fax number and date of appointment	Mr. Sanjay Tyagi , Agent & Plant Head Arasmeta Cement Plant of M/s Nuvoco vistas corporation limited P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh, Phone no- 07817-233234, Fax No -07817-234237,234286 Mail ID-sanjay.tyagi@ nuvoco.in, Date of appointment- 01/08/2017
24	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
25	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
26	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
27	Date of approval of Mining Plan/ Modified Mining plan with five year period and specific condition in approval letter if any.	Modified Mining Plan approved :Bilas/Chup/Khayo-80/Nag/2015/22 , Raipur dated19/08/2016 for period 2016-17 to 2020-21.
28	Date of approval of Mining Scheme/ Modified Scheme with five year period and specific condition in approval letter if any.	NA
29	Mineral (s) granted in lease and proved for mining	Limestone
30	Method of Mining (Opencast, Under ground)	Opencast
31	Category (Fully Mechanized, others or Manual)	Fully Mechanized
32	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	0	0	
1b	Exploration over area for geological axis 1 &2	No proposal	N/A	
1c	Exploration Agency & Expenditure in lakh during the year	N/A	N/A	
1d	Balance area to be explored to bring Geological axis in 1 or 2	360.35 hectare under G1 other balance 36.82 G3 category and 100.81 G4(non mineralized area)		
1e	Balance reserve as on 01.04.2018	Category111- 18.542 million tonnes (Cao more than 42%), 5.519 (39-42% CaO), 3.454 (34-38% CaO (million tonnes) and category 211- 11.2 million tonnes, Category 311 -1.18 million tonnes and in category 333-9.98 million tonnes		
1f	General Remarks of inspecting officer on Geology Exploration etc	As mentioned above broadly the mineralized area is already explored. The area is having flat sedimentary deposit.		

2. 0 Development

S. No	Items	Proposal	Actual Works	Remarks
2a	Location and development with respect to lease area	E 639592 to E639990 & N 2429325 & N2528130	Within proposed area	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	One bench soil and four limestone bench	One soil bench and four limestone	
2c	Stripping Ratio or Ore to OB ratio	1:0.30	1:0. 37	
2d	Quantity of Top soil generation in M3	185381	182271	
2e	Quantity of overburden generation in MT	616012 MT	609276 MT (soil 273406 MT and rock OB-335870 MT)	

2f	General Remarks of inspecting officer on development of pit with respect type of deposit etc.	The development is broadly as per proposal with on OB bench and four limestone bench and bench height and width are broadly as per proposal.
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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	2047019 MT	1654875.75	
3c	Recovery of salable/usable mineral from ROM production	84.51%	79.72	
3d	Quantity of Mineral Reject/sub grade generation	Nil	Nil	Waste rock no reject mineral generated
3e	Grade of mineral reject generation and threshold value declared	CaO below 34% and Mgo more than 4%	CaO below 34% and Mgo more than 4%	
3f	Quantity of Sub grade mineral generation	-	-	
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 sorting of limestone from shale and soil by machine	Mechanized sorting of limestone from shale and soil by machine	
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	181.43 hectare	178.79 hectare		
3n	Ore to OB ratio for the pit/mine during the year	1:0.30	1:0.37		
3o	Total area put in use under different heads at the end of the year	6.2 hectare	3.56 hectare		
3p	Production of ROM mineral during last five year period, as applicable	Production of Limestone			
		Year	Proposal MT	Actual MT	
		2014-15	2182850	1887597	
		2015-16	2209080	1691857	
		2016-17	2043985	1813006	
		2017-18	2011985	2011532	
		2018-19	2047019	1654875.75	
	Total	10494919	9058867.75		
3q	General remarks of inspecting officer on method of mining etc	The method of mining is opencast method by using HEMM 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	E638319 to E638634 & N2429134 to 2429010, E639592 to 639722 & N2428987 to N2429059	E638341 to E638450 & N2429101 to 2429048 & E639599 E639720 & N2429059 to N2429040	
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)	No proposal of dump, dumping in backfilled area	As per proposal	No proposal of dump location of old and dead dump
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	Not mentioned specifically yearwise only mentioned all around dump.	3 km approx in totally and proposal is given for cleaning the silt of existing garland drain	
4j	Number of settling pond	No proposal	4 nos in total till date	
4 k	Specific comments of inspecting officer on waste dump management	The dumping is not done over existing dump and existing dump is almost reclaimed and stabilized. The waste dumping is done on exhaust pit for backfilling.		

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 2018-19 FY development plan E638319 to E638634 & N2429134 to 2429010 , E639592 to 639722& N2428987 to N2429059	As per proposal	
5b	Area under backfilling of mined out area	Additional 1.47hect , and proposed to increase further height of existing backfilling area (FY2018-19)	As per proposal	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (rule 32)	1.5 ha yearwise proposal for reclamation	plantation	
5d	Total area fully reclaimed and rehabilitated	1.5 ha yearwise proposal for reclamation	39.26 ha. till date	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The backfilling and reclamation done broadly as per proposal.		

6.0 Progressive Mine Closure Plan

S. No	Items	Proposals	Actual Works	Remarks
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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	yes	
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 37.76 hectare , 5098 saplings during year 2018-19, cumulative nos of plants -619623 nos and survived -434245 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	PMCP proposal are implemented		

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	Grade wise production- cement grade 1158413 MT Blendable grade- 330975 MT, sub grade-165488 MT
7b	Method of grade wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	

7c	Different grade of Mineral sorted out at mines	As per quality requirement for plant and below that is subgrade which is stack separately and blended with high grade	As per requirement of plant.	
7d	Any beneficiation process at mines	By blending	By blending	
7e	General remarks of inspecting officer on Mineral Conservation and beneficiation issues.	As per quality requirement for plant and below that is subgrade which is stack separately and blended with high grade and no beneficiation done.		

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	5098Plantation	
8g	Survival rate	70%	80%	
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	Air, Water, Noise monitoring is regularly done as per proposal and afforestation, water sprinkling for dust suppression and other environment protection method is being done therefore no such adverse impact on environment due to mining is 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 2019 A. R. Submitted upto- FY2018-19	

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	Yes given	Manager-Shri Ritesh Kaimal, Mining Engineer-Shri Rajesh Kumar Rathore, Geologist- Shri Ajay Pratap Singh	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes given	Cover under o/c working-178.79 ha., Reclaimed Area-39.26 ha., Waste disposal-27.80 ha., Infrastructure-13.50 ha.	
9d	Scrutiny of Annual return on afforestation	Yes given	Within lease area 5098 nos saplings	
9e	Scrutiny of Annual return on mineral reject generation (grade and quantity)	Nil	No reject generation	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Nil	Stock negligible	
9g	Scrutiny of Annual return on sale value, Ex mine price and production cost	Cost of Production and Ex-mine Price –Rs248.70/-	The production is for captive use therefore Cost of Production and Ex-mine Price is same.	
9h	Scrutiny of Annual return on fixed assets	Rs 447951887/-		
9i	Scrutiny of Annual return on mining machineries	As per proposal	Back hoe-0.9 cum, shovel-4.0 cum, Dumper-31.75 ton, Drill - 115mm & Water Tanker	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- During the present inspection no serious violation found.

Date of Last Inspection, Name and Designation of the Inspecting Officer:

30/11/2018, Mr B.L Gurjar (RCOM) & Mr. Rudra N. Mishra (Senior Mining Geologist)

Details of the Violations Pointed-out during Inspections: No Violation

(Rajesh Kumar Das, Senior Assistant Controller of Mines)