MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details	
1	Name of inspecting office &	Rajesh Kumar Das, Senior Assistant Controller of Mines, Shri	
	designation, Accompanying	Vedprakash Devangan, Mining Engineer	
	person		
2	Date of inspection	16.05.2019	
3	Name of the Mine	Sonadih Limestone Mines	
4	Total Lease Area (Ha) with	Forest land : NIL	
	breakup of Non-forest and forest	Non forest Land: 444.763 ha	
	land	Total lease area: 444.763 Ha	
5	Minecode	38MPR28010	
-	IDMD ' (/ NI 1 1	IDM/270/2011	
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/378/2011	
7	Name of the lessee, Address,	Nuvoco Vistas Corp Ltd (Formerly Lafarge India Ltd)	
/	phone, email and fax number	Sonadih Cement Plant, Nuvoco Vistas Corp. Limited	
	phone, eman and tax number	PO-Raseda, Tehsil-Balodabazar, District-Balodabazar-Bhatapara	
		State-Chhattisgarh, Pin code- 493332	
		Phone- 07727-72226,Fax-07727-72227	
		Email-ramesh.warke@nuvoco.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	23 June"2010	
	applicable and its period &	For the period 15.01.2006 to 14.01.2026 (20 years)	
10	expiry	15.4 (1)2015	
18	Date of second Renewal, if	17 April''2017	
	applicable and its period &	For the period 15.01.2026 to 14.01.2036 (10 years)	
10	expiry Date of submission of renewal	NIA.	
19		NA	
	application if Mining Operations are continuing under deemed		
	extension		
20	Name of the Nominated Owner	Name : Mr. Jayakumar Krishnaswamy	
	with Address, phone, email, fax	Designation : Managing Director	
	number and date of appointment	Date of appointment: 01.11.2018	
	11	Address : Equinox Business Park	
		(Peninsula Techno Park), Tower 3, East Wing, 4th Floor, Off	
		Bandra-Kurla Complex, LBS Marg, Kurla-West, Mumbai,	
		Maharashtra-400070,Mob:+91 (0) 22 61202628	
21	Name of the Mine Agent with	Name : Mr Ramesh Warke	
	Address, phone, email, fax	Designation : Sr. Vice President	
	number and date of appointment	Date of appointment : 01.01.2018	
		Address : Sonadih Limestone Mines, PO-Raseda	
		Distt: Balodabazar-Bhatapra, Chhattisgarh-493332	
		+91-7727272226	

22	Name of the Mines Manager	Name	: Mr Nitesh Raghuvanshi
	with Address, phone, email, fax	Designation	: DGM
	number and date of appointment	Qualification	: BE_Mining
	in mines	Date of appointment	: 05.01.2015
		Work Experience	: 16+ years
		Address	: Sonadih Limestone Mines, PO-Raseda
		Distt: Balodabazar-Bl	natapra,Chhattisgarh-493332
			Mob:+91-7869962751

23	Name of the Mining Engineer,	Name : Mr Vedprakash Dewangan
	Qualification and total	Designation : Manager
	experience with Address, phone,	Qualification : BE_Mining
	email, fax number and date of	Date of appointment : 09.05.2016
	appointment in mine	Work Experience : 10+ years
		Address : Sonadih Limestone Mines,PO-Raseda
		Distt: Balodabazar-Bhatapra, Chhattisgarh-493332
		Mob:+91-9893019629
24	Whether Geologist and Mining	Name : Mr Rajesh Singh
	Engineer appointed in mines	Designation : AGM
	satisfy the rule 42 & carrying	Qualification : M Tech Applied Geology
	out their duties as per rule 43 &	Date of appointment : 01.09.2017
	44.	Work Experience : 20+ Years
		Address : Sonadih Limestone Mines, PO-Raseda
		Distt: Balodabazar-Bhatapra, Chhattisgarh-493332
		Mob:+91-9163323296
25	Date of Approval of Mining	Modified Mining Plan approval letter no:
	Plan/Modified Mining Plan with	Balodabazar/chu.pa/kha yo-1130/2017-Raipur.
	five-year period and specific	Dated: 05.01.2018
	condition in approval letter, if	For the period up to 31-March-2021
	any.	
26	Date of Approval of Scheme of	Approved Mining scheme:
	Mining/Modified Scheme of	For the period 1-Dec''2017 to 31-March-2021
	Mining with five-year period	
	and specific condition in	Date of Approval: 05.01.2018
	approval letter, if any.	11
27	Mineral(s) granted in lease and	Limestone
	proved for mining	
28	Method of Mining(Opencast,	Opencast
L	Underground)	
29	Category (Fully Mechanised,	Fully Mechanised
	Others or Manual)	
30	Captive/Non Captive	Captive
31	Existing EC Limit and validity	5.5 million tons
32	Status of Financial	Rs 75153000/- upto 31.03.2021
	Assurance	

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	oposals Actual work	Remarks
1a	Backlog of previous year	8 nos bore 44 nos bore l	noles drilled
		oles proposed 44 nos bore i	-

		upto 30 meter depth		
1b	Exploration over lease area for	18 Ha	58.30 Ha	
	Geological axis 1 or 2.	(for Geological	(for Geological axis 1)	
		axis 1)		
1c	Exploration Agency &	Gem Consultants		
	Expenditure in lakh Rupees during	INR 3176943/-		
	the year			
1d	Balance area to be explored to			
	bring Geological axis in 1 or 2	40 Ha.	NIL.	
1e	Balance reserves as on 01.04.2019	23.894	25.088	
10	Balance reserves as on 01.04.2019		23.088	
1f	General remarks of inspecting	The limestone deposit belongs to Chandi Limestone formation		
	officer on geology, exploration	of Raipur group of Chhattisgarh super group. The limestone		
	etc.	strata have a general strike of NE-SW with gentle dip of 5-6		
		degree due NW. T	he lease area is broadly explored i	in G1.

2.0 **Development**

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Western Part of ML area	Broadly within proposed area.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Yes 0.5 to 1.0 Mtr OB	
2c	Stripping ratio or ore to OB ratio	1:0.014	1:0.027	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	55000	84267	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is be is on higher side.	oroadly as per proposal but OB/IB	generation

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	5.5 Million tonne	4.30 Million	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	160000 Tonnes	164740 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	NA	NA	

	generation			
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method of working for blending high grade and sub grade mineral using multiple excavators	Mechanized method of working for blending high grade and sub grade mineral using multiple excavators	
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 4.5(m) x 3.5(m) Blasting – Non Electrical Sequential firing with SME Drill – 115 mm	Yes Deephole drilling & Blasting, Spacing x Burden 4.5(m) x 3.5(m) Blasting – Non Electrical Sequential firing with SME Drill – 115 mm	
3k	Provision of mining machineries in mineral benches	Shovel – 4 Nos. Dumper- 12 Nos.	Shovel – 4 Nos. Dumper- 12 Nos.	

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Proposed – 8-10 M in ore body	Yes Proposed – 8-10 M	
3m	Total area covered under excavation/pits	-	123.639 Hect	
3n	Ore to OB ratio for the pit/mine during the year	1:0.014	1:0.027	
30	Total area put in use under different heads at the end of year	Waste/reject- 5.72 Hect Others- 85.100 Hect	Waste/reject- 5.72 Hect Others- 85.100 Hec	
3p	Production of ROM mineral during last five-year period, as applicable	Yr 2014-15: 5200000 Yr 2015-16: 5500000 Yr 2016-17: 5500000 Yr 2017-18: 4200000 Yr 2018-19: 5500000	Yr 2014-15: 3414313 Yr 2015-16: 3973931 Yr 2016-17: 3416172 Yr 2017-18: 3793870 Yr 2018-19: 4302098	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is by opencast method as per proposal using shovel-Dumper combination and deep hole drilling and blasting.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject(waste) (Rule 32, 33)	Within the lease area	OB Dump: E 624700-624500 N 2406350 – 2406100 Waste Dump: E 624520-624679 N 2406121-2406331	
4b	Location of topsoil, OB & mineral reject dumps	NW	NW	OB dump
4c	Number of dumps within	Inside – 2	Inside – 2	

	lease area and outside lease area	Outside - 0	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 Waste Dump: E 624520-624679 N 2406121-2406331
4e	Number of active & alive dumps	OB - 1 Waste - 1	OB - 1 Waste – 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 4.1 Km Retaining Wall with garland drain
4j	Number of settling ponds	NA	NA
4k	Specific comments of inspecting officer on waste dump management	The waste dumping	is broadly as per proposal.

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction	Backfilling will be	Backfilling done at mined	
	of mineral from mined out area	done at mined out area	out area	
	before starting backfilling			
5b	Area under backfilling of	At location	0.5 Ha	
	mined out area	E 624810-624878		
		N 2405013-2405127		
5c	Concurrent use of topsoil for			
	restoration or rehabilitation of	Topsoil will be used	Topsoil is being used for	
	mined out area (Rule 32)	for plantation purpose	plantation purpose	
5d	Total area fully reclaimed &	NA	12.300 Hec. (Protective	
	rehabilitated		Bund Along the River)	
5e	General remarks of inspecting	The backfilling is done a	as per proposal	
	officer on backfilling,			
	reclamation etc			

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on	*Yes	*To be send	
	PMCP submitted on time	*Plantation – 2500	*Plantation – 5500	
	and correctly - Rule 23E(2).	*Land to be Degraded	(WML+OML)	
	Details should be given in	*Land to be reclaimed-	*Land Degraded-	
	the format as given in	-	2.989 hect	
	Annexure-20.	*OB Quantity – 55000	*Land to be reclaimed-	
		M3	164740 Tonnes	
6b	Management of			
	worked/mined out benches			
	i) Area available for			
	rehabilitation (ha)	i)NIL	i)NIL	

	ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific	ii)85.1 Hect iii)- saplings	ii)86.1 Hect iii)3000 saplings (WML) 2000 saplings (OML)	
	method of rehabilitation vi) Cost incurred on watch & care during the year	iv) NA	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 iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	NA	NA	

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	PMCP proposals are impl	emented and broadly as per proposal.

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks			
7a	ROM Mineral dispatch or	YES – Different	YES – Operating 4				
	grade-wise sorting within	benches to be opened	benches				
	lease area						
7b	Method of grade-wise						
	mineral sorting i.e. manual or	Mechanised	Mechanised				
	mechanical						
7c	Different grade of mineral		The low grade material and				
	sorted out at mines	YES	high grade material				
			blended in such a way to				
			meet the requirement.				
7d	Any beneficiation process at	NA	NA				
	mines						
7e	General remarks of	f The grade is vary from bench to bench9horizontally as well as					
	inspecting officer on Mineral		ling is done to cater the require				
	conservation & beneficiation	well as optimum utilisatio	n of limestone of various grad	e.			
	issues						

8.0 Environment

SN	Item	Proposals Actual work Ren		Remarks	
8a	Separate removal and utilization of topsoil (Rule 32)	YES Plan – 55000 M3 (Top Soil + OB)	YES Actual – 84267 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	YES	YES		
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	Plantation WML: 366875 nos OML: 290356 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 area	The lessee as per proposal complied all environment protection measures i.e. plantation, water sprinkling for dust suppression, monitoring of Air, water, noise, etc therefore no such adverse impact observed on aesthetic beauty in and around mines area.			

9.0 Compliance of Rule 45

S. It	tem	COMMENTS	Remarks
S	Status of submission of Monthly and Annual returns	M.R. Submitted upto – April''2019 A.R. submitted upto- FY 2017-18	

S.	Item	Details	Observation of I/Officer	Remarks
N.		GIVEN in		
		A.R.		
9b	Scrutiny of Annual	Yes given	Shri Ved prakash Devangan, Mining	
	return for information		Engineer, Shri Nitesh	
	on Mining Engineer,		Raghuwanshi, Mines Manager, Shri	
	Geologist and Manager		Rajesh Singh, Geologist.	
9c	Scrutiny of Annual		Covered under o/c working-120.651	
	return on land use		ha, Reclaimed & Rehabilitated- 12.3	
	pattern for area under		ha., Waste Disposal –5.727 ha.,	

	pits, reclaimed area, dumps etc.		Infrastructure- 6	1.45 ha.			
9d	Scrutiny of Annual return on afforestation	Yes given	Within Lease are outside lease are				
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		135000				
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil					
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost		Ex. Mine price & 229.02/-	& production	cost is R	Rs	
9i	Scrutiny of Annual return on fixed assets	Yes given	Rs 1341028501	1/-			
9k	Scrutiny of Annual return on mining machineries	Yes given	SHOVEL (HYDRAULIC)	3.500 CUM	1	Non Electrical	
			SHOVEL (HYDRAULIC)	5.100 CUM	3	Non Electrical	
			DUMPER	35.000 TONNE	12	Non Electrical	
			BLAST HOST DRILL	112.000 MM	2	Non Electrical	
			FRONT END LOADER	3.500 CUM	1	Non Electrical	
			DOZER	450.000 HP	1	Non Electrical	
			MOTOR GRADER	112.000 HP	1	Non Electrical	
			EXPLOSIVE VAN	1.910 TONNE	1	Non Electrical	
			PUMPS (ELEC.)	105.000 L/MN	1	Electrical	

¹⁰⁻ Details of violations observed during current inspection and compliance position of earlier violation pointed out:- There is no violation pending for compliance and during present inspection Rule 37(1),37(2) and 48 found violated and accordingly violation letter issued.